

SIEMENS

FUJI-Reader

SP

Service Manual

Maintenance Utility

© Siemens AG 2003

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

English

Doc. Gen. Date: 01.03

Print No.: SPB7-420.840.56.01.02

Replaces: n.a.

CR-IR347/CR-IR347P

Service Manual

Maintenance Utility (MU)

CR-IR347 Service Manual – Contents

Maintenance Utility (MU)

1.	Summary of Service Utility	MU-2
(1)	Maintenance Utility	MU-2
(2)	Configuration Setting	MU-2
(3)	Image Processing Parameter Adjustment	MU-2
2.	Mode Transitions	MU-4
(1)	Initialization process mode	MU-5
(2)	Routine process mode	MU-5
(3)	Abnormality process mode	MU-5
(4)	User utility mode (U-Utility)	MU-5
(5)	Maintenance utility mode (M-Utility)	MU-5
(6)	End process mode	MU-5
3.	U-Utility (User Utility)	MU-6
(1)	Functions of U-Utility	MU-6
(2)	U-Utility tree	MU-6
(3)	U-Utility operation	MU-7
(4)	U-Utility commands	MU-8
4.	M-Utility (Maintenance Utility)	MU-10
(1)	Functions of M-Utility	MU-10
(2)	M-Utility tree	MU-10
(3)	M-Utility operation	MU-16
(4)	Common Operating Procedures for M-Utility	MU-19
(5)	M-Utility commands	MU-24
[1]	ERROR LOG UTILITY	MU-24
[1-1]	LIST	MU-24
[1-1-1]	ALL	MU-24
[1-1-2]	SUMMARY	MU-25
[1-2]	CLEAR	MU-26
[1-3]	SAVE TO FD	MU-27
[1-3-1]	ERROR LOG	MU-27
[1-3-2]	TRACE DATA	MU-28
[1-3-3]	IOT DATA	MU-29

[1-4]	SAVE TO HD	MU-30
[1-4-1]	ERROR LOG	MU-30
[2]	CONFIGURATION SETTING	MU-32
[2-1]	SYSTEM (IRSET.CFG)	MU-32
[2-2]	PRINT (FILMFMT.CFG)	MU-45.4
[2-3]	REMOTE SWITCH (RMT_SW.CFG)	MU-55
[2-4]	EQUIPMENT (EQUIP)	MU-56
[2-5]	LOCAL INTERFACE (INTERFACE)	MU-58
[2-6]	NETWORK HOST INTERFACE (DEVICE)	MU-58
[2-7]	HOSTS ADDRESS (HOSTS)	MU-60
[2-8]	DISTRIBUTION (CODEDSTB)	MU-62
[2-9]	ROUTING (ROUTE)	MU-63
[2-10]	NETMASKS (NETMASKS)	MU-64
[2-11]	DICOM (Base on DICOM)	MU-65
[3]	TEST MODE	MU-66
[3-1]	ROUTINE	MU-66
[3-2]	AUTO MODE	MU-66
[3-2-1]	READING & ERASURE	MU-66
[3-2-2]	PRIMARY ERASURE	MU-67
[3-2-3]	SECONDARY ERASURE	MU-68
[4]	ELECTRICAL UTILITY	MU-70
[4-1]	ERASURE LAMP TEST	MU-70
[4-2]	IMAGE MEMORY TEST	MU-70
[4-3]	DSP TEST	MU-71
[4-4]	LAN	MU-72
[4-4-1]	ETHERNET MAC ADDRESS	MU-72
[4-4-2]	PING	MU-72
[4-4-3]	CPU90F DMA	MU-73
[4-5]	HDD	MU-74
[4-5-1]	WRITE-READ VERIFY	MU-74
[4-6]	FDD	MU-75
[4-6-1]	WRITE-READ VERIFY	MU-75

[5]	SCANNER UTILITY	MU-76
[5-1]	INITIALIZE	MU-76
[5-2]	POLYGON	MU-76
[5-2-1]	OFF	MU-76
[5-2-2]	ON	MU-76
[5-3]	LASER	MU-77
[5-3-1]	OFF	MU-77
[5-3-2]	ON	MU-77
[5-4]	HV	MU-78
[5-4-1]	OFF	MU-78
[5-4-2]	ON	MU-78
[5-5]	HV DATA	MU-79
[5-5-1]	FRONT	MU-79
[5-5-2]	BACK	MU-80
[5-6]	FORMAT	MU-81
[5-6-1]	DEFAULT	MU-81
[5-6-2]	FREQ ADJUST	MU-82
[5-6-3]	PIXEL ADJUST	MU-83
[5-7]	SHADING/SENSITIVITY	MU-84
[5-7-1]	REC MODE	MU-84
[5-7-2]	CALCULATION	MU-85
[5-7-2-1]	ST	MU-85
[5-7-2-2]	HR	MU-89
[5-7-2-3]	HR (FOR MANUFACTURING)	MU-92
[5-7-3]	SHADING/POLYGON CORRECTION	MU-93
[5-7-4]	SENSITIVITY DATA	MU-94
[5-7-5]	HV DATA/ [5-7-6] PMT DATA	MU-94
[5-8]	DATA MANAGEMENT	MU-95
[5-8-1]	SAVE SHADING AND POLYGON DATA	MU-95
[5-8-2]	SAVE SENSITIVITY DATA	MU-95
[5-8-3]	SAVE FORMAT DATA	MU-96
[5-8-4]	DISPLAY DATA	MU-97
[5-8-5]	LOAD FROM FD	MU-98
[5-8-6]	SAVE TO FD	MU-99

[5-9]	DIAGNOSTIC	MU-100
[5-10]	VIRTUAL IMAGE	MU-101
	[5-10-1] LIGHT	MU-101
	[5-10-2] LOG AMP	MU-102
	[5-10-3] SCN08 INPUT	MU-102
	[5-10-4] ROUTINE	MU-102
[5-11]	BOTH SIDES ADDITIONAL	MU-103
	[5-11-1] FRONT ONLY	MU-103
	[5-11-2] BACK ONLY	MU-103
	[5-11-3] ROUTINE	MU-103
[6]	MECHANICAL UTILITY	MU-104
[6-1]	INITIALIZE	MU-104
[6-2]	MOTOR	MU-105
	[6-2-1] NUMBER	MU-105
	[6-2-2] PARAMETER	MU-105
	[6-2-3] DRIVE	MU-108
	[6-2-4] STOP	MU-108
[6-3]	ACTUATOR	MU-109
	[6-3-1] NUMBER	MU-109
	[6-3-2] DRIVE	MU-110
	[6-3-3] STOP	MU-111
[6-4]	SENSOR	MU-112
	[6-4-1] NUMBER	MU-112
	[6-4-2] MONITOR	MU-112
	[6-4-3] MONITOR ALL	MU-113
[6-5]	UNIT	MU-114
	[6-5-1] IP FEED/LOAD UNIT	MU-114
	[6-5-1-1] ARM HOME POSITION	MU-114
	[6-5-1-2] FEED/LOAD	MU-114
	[6-5-2] UP/DOWN UNIT	MU-115
	[6-5-3] SIDE-POSITIONING GRIP	MU-116
	[6-5-3-1] HOME POSITION	MU-116

	[6-5-3-2] GRIP	MU-116
	[6-5-3-3] RELEASE	MU-117
	[6-5-4] SIDE-POSITIONING UNIT	MU-117
	[6-5-4-1] HOME POSITION	MU-117
	[6-5-4-2] ACTUATION	MU-118
	[6-5-5] AFTER-READING GRIP	MU-118
	[6-5-6] DRIVING GRIP	MU-119
	[6-5-6-1] GRIP	MU-119
	[6-5-6-2] RELEASE	MU-120
	[6-5-6-3] D/A DATA	MU-120
	[6-5-7] DRIVEN GRIP	MU-122
	[6-5-7-1] GRIP	MU-122
	[6-5-7-2] RELEASE	MU-123
	[6-5-7-3] D/A DATA	MU-123
	[6-5-8] MIRROR UP/DOWN	MU-124
	[6-5-8-1] UP	MU-124
	[6-5-8-2] DOWN	MU-124
	[6-5-9] CLEANING GUIDE	MU-125
	[6-5-9-1] HOME POSITION	MU-125
	[6-5-9-2] GRIP	MU-125
	[6-5-9-3] RELEASE	MU-125
[7]	FILE UTILITY	MU-126
[7-1]	FORMAT FD	MU-126
[7-2]	FORMAT IMAGE PARTITION	MU-126
[7-3]	BACKUP	MU-127
	[7-3-1] SCANNER DATA	MU-127
	[7-3-2] CONFIGURATION DATA	MU-128
	[7-3-3] NETWORK DATA	MU-129
	[7-3-4] IMAGE PROCESSING DATA	MU-130
	[7-3-5] CSL MENU DATA	MU-131
	[7-3-6] EDR PROCESSING DATA	MU-132
[7-4]	RESTORE	MU-133
	[7-4-1] SCANNER DATA	MU-133
	[7-4-2] CONFIGURATION DATA	MU-134

[7-4-3] NETWORK DATA	MU-135
[7-4-4] IMAGE PROCESSING DATA	MU-136
[7-4-5] CSL MENU DATA	MU-137
[7-4-6] EDR PROCESSING DATA	MU-138
[7-5] EDR DATA	MU-139
[7-5-1] PARAMETER ONLY (SAVE TO FD)	MU-139
[7-5-2] FULL (SAVE TO FD)	MU-140
[7-5-3] PARAMETER ONLY (SAVE TO HD)	MU-141
[7-5-4] FULL (SAVE TO HD)	MU-141
[7-5-5] DELETE EDR BACKUP ON HD	MU-141
[7-6] PREVIOUS SYSTEM SOFTWARE	MU-141
[7-7] EXECUTION	MU-142
[8] BACKUP MEMORY	MU-143
[9] HV ON/OFF	MU-144
[10] MENU SETTING	MU-146
[11] SYSTEM UTILITY	MU-147
Appendix 1. Software Installation Procedures	MU_A1-1
Appendix 1.1 Installing the Software (Application)	MU_A1-2
Appendix 1.2 Formatting Hard Disk	MU_A1-7
Appendix 1.3 Installing “Menu Default FD for USA” Setup File (Only for USA in USA/CSL Type)	MU_A1-11
Appendix 2. List of Software Files	MU_A2-1
Appendix 2.1 SYSTEM	MU_A2-1
Appendix 2.2 LOG	MU_A2-9

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2732)	All pages
05/15/2001	01	Corrections (FM3052)	MU - 20, 31, 33–51, 51.1–51.4, 59–161, 161.1~161.12, 162–181
08/30/2001	02	Support for “plus” (Support for software version A04) (FM3142)	All pages
08/30/2002	03	Corrections (FM3476)	MU - 6–8, 12, 17, 35, 86, 87, 90, 91, 129, 134

1. Summary of Service Utility

(1) Maintenance Utility

Menus are displayed through special manipulation (not open to the user) of the machine's operation panel to perform various functions.

The menu hierarchy of the Maintenance Utility varies depending on whether the machine is in normal operation or otherwise (i.e., in the initialization sequence or in serious error).

(2) Configuration Setting

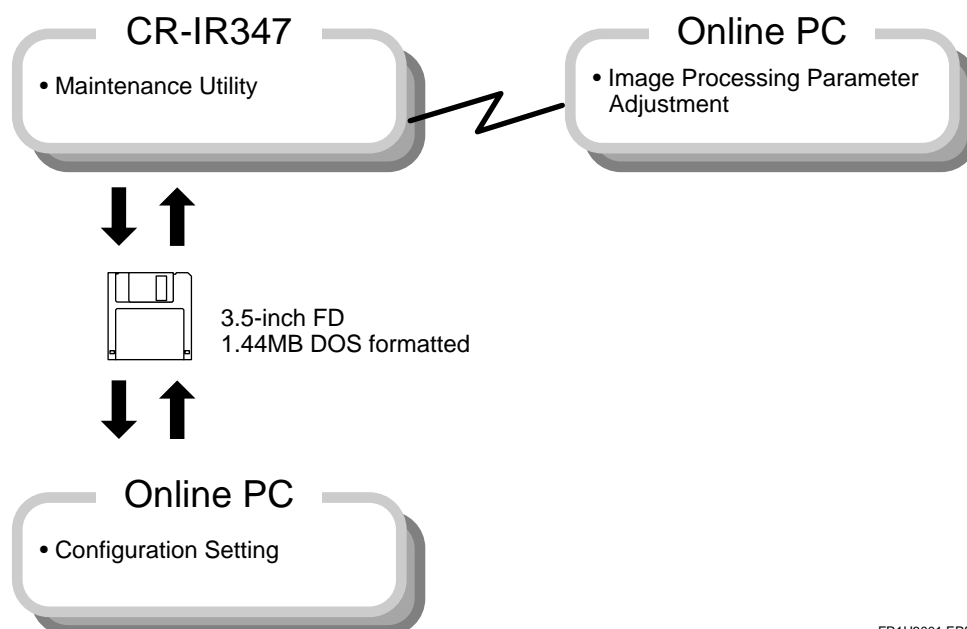
Because reading and writing of files that can be edited on a personal computer (PC) is supported, configuration setting may be performed on a PC running Windows 95. Setup can be done efficiently by taking advantage of PC's ease of use, when, for example, initial configuration setting is done or multiple items are changed collectively.

Configuration setting may also be implemented (settings may be changed) through manipulation on the machine's operation panel.

(3) Image Processing Parameter Adjustment

A PC running Windows 95 may be connected on-line to the machine to rewrite various image processing parameters.

Rewriting of image processing parameters that require repeated setting changes can be implemented efficiently by registering several setting patterns in the PC, for example.



FR1H3001.EPS

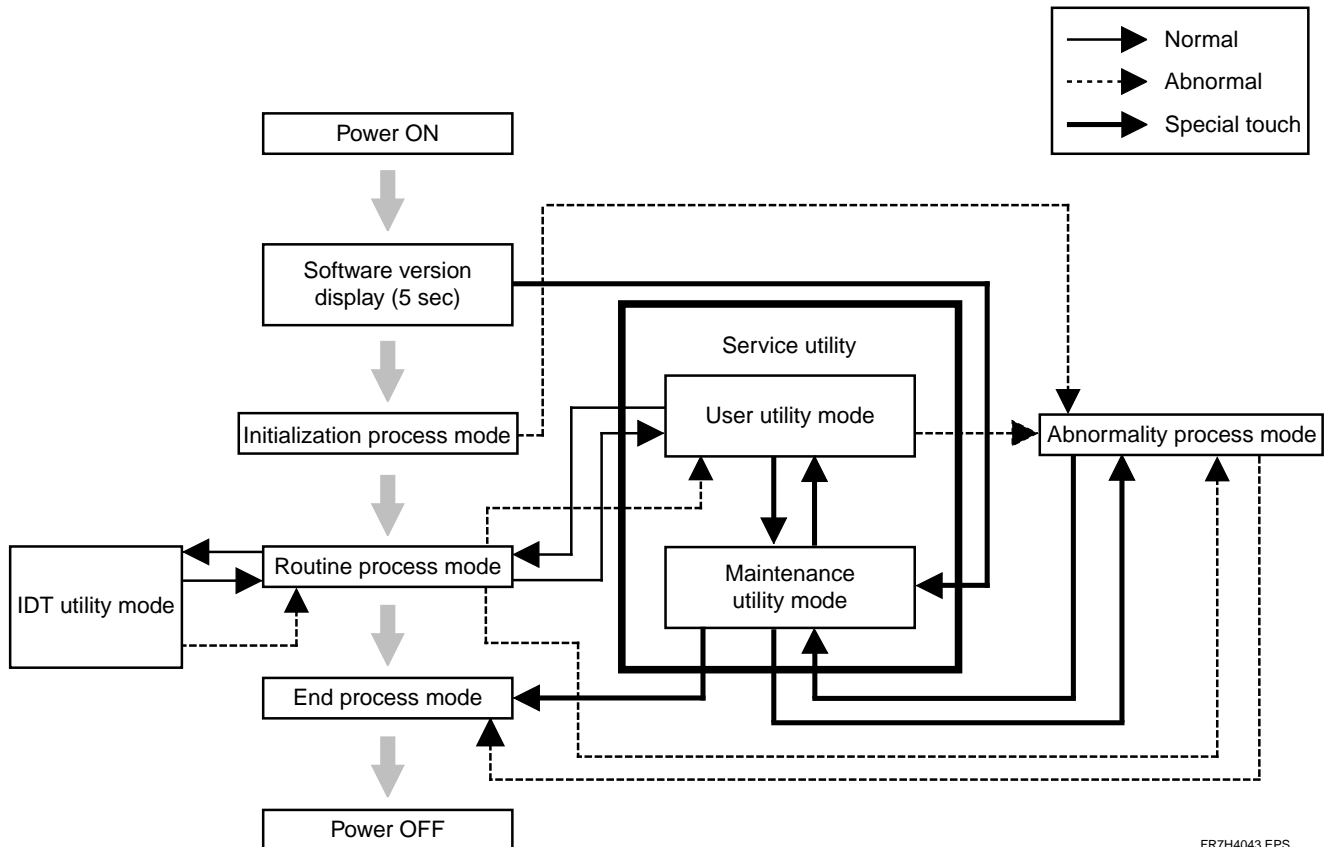
BLANK PAGE

2. Mode Transitions



CAUTION

If the circuit breaker power supply is turned OFF while data is being written to a floppy disk (FD) or the hard disk drive (HDD), the data, FDD, or the HDD itself may be damaged.



(1) Initialization process mode

Condition where initialization and self-diagnostics processing is performed during power-ON.

(2) Routine process mode

Routine, ready condition.

(3) Abnormality process mode

Condition where an error is displayed upon occurrence of an abnormality.

(4) User utility mode (U-Utility)

Condition where the user is performing routine maintenance procedures.

(5) Maintenance utility mode (M-Utility)

Condition where the serviceman is performing troubleshooting or maintenance procedures.

(6) End process mode

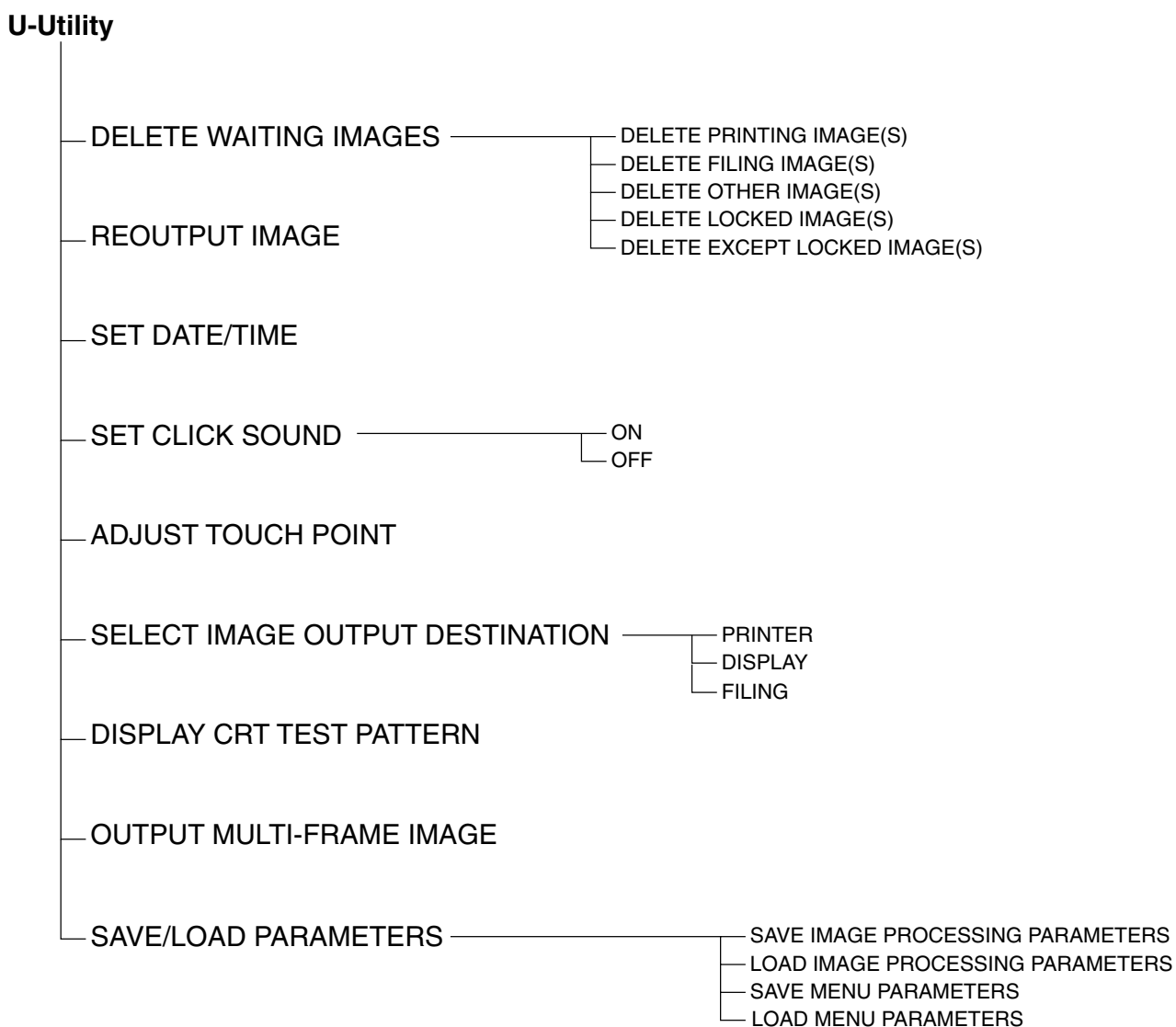
Condition where the process is quitted to make the machine inoperative.

3. U-Utility (User Utility)

(1) Functions of U-Utility

The User-Utility provides utility functions intended for use by both a general user and a service engineer.

(2) U-Utility tree

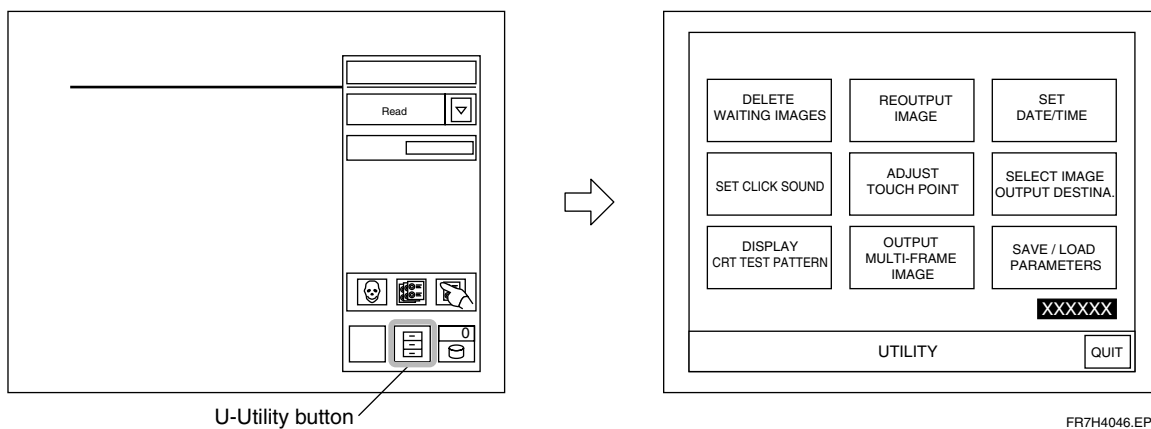


FR7H4044.EPS

(3) U-Utility operation

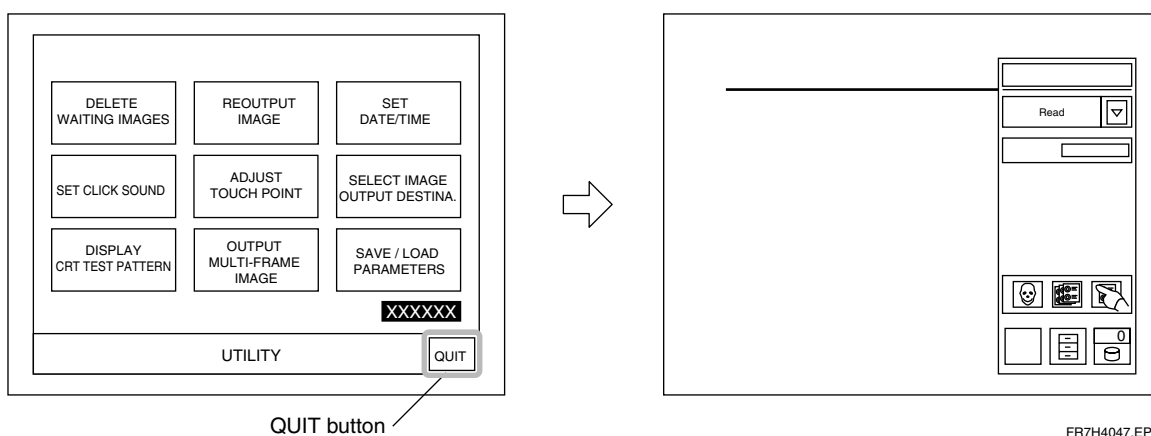
■ Starting the U-Utility

Touch the U-Utility button.



■ Quitting the U-Utility

Touch the "QUIT" button.



(4) U-Utility commands

■ DELETE WAITING IMAGES

Deletes images that have not been outputted.

- DELETE PRINTING IMAGE(S)

Deletes all images awaiting output to LP.

- DELETE FILING IMAGE(S)

Deletes all images awaiting output to ODF.

- DELETE OTHER IMAGE(S)

Deletes all images awaiting output to HI-C or image monitor.

- DELETE LOCKED IMAGE(S)

Deletes all locked images awaiting output.

- DELETE EXCEPT LOCKED IMAGE(S)

Deletes all images - other than locked ones - awaiting output.

■ REOUTPUT IMAGE

Reoutputs images.

■ SET DATE/TIME

Sets the date and time.

■ SET CLICK SOUND

Set the click sound to ON or OFF.

■ ADJUST TOUCH POINT

Adjusts the touch point on the touch panel.

■ SELECT OUTPUT DESTINATION

Selects the image output destination.

■ DISPLAY CRT TEST PATTERN

Displays the CRT test pattern.

■ OUTPUT MULTI-FRAME IMAGE

Generates forced-output of images.

■ SAVE/LOAD PARAMETERS

- SAVE IMAGE PROCESSING PARAMETERS

Saves image processing parameters to the FD.

- LOAD IMAGE PROCESSING PARAMETERS

Loads image processing parameters from the FD.

- SAVE MENU PARAMETERS

Saves menu parameters to the FD.

- LOAD MENU PARAMETERS

Loads menu parameters to the FD.

BLANK PAGE

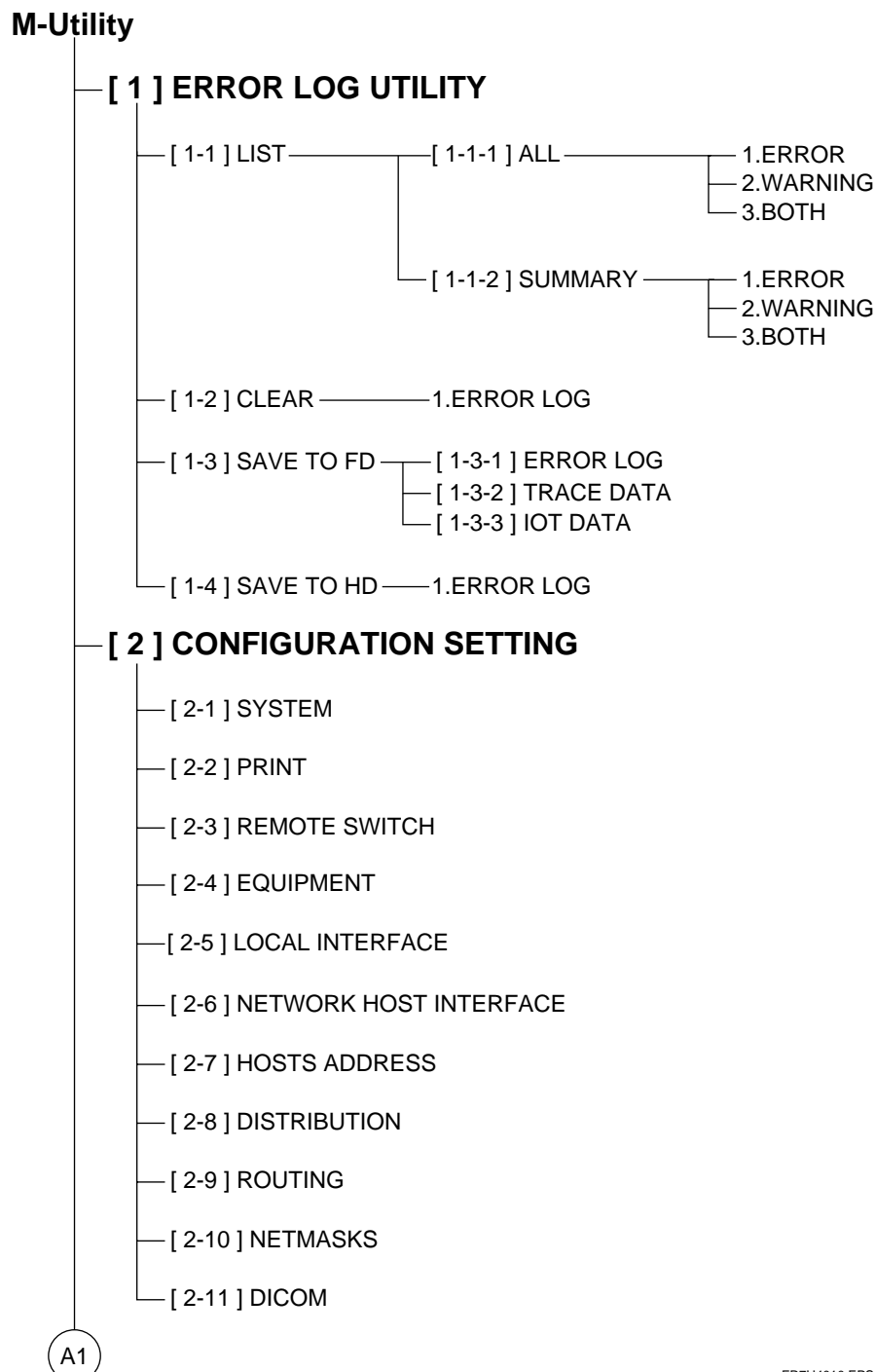
4. M-Utility (Maintenance Utility)

(1) Functions of M-Utility

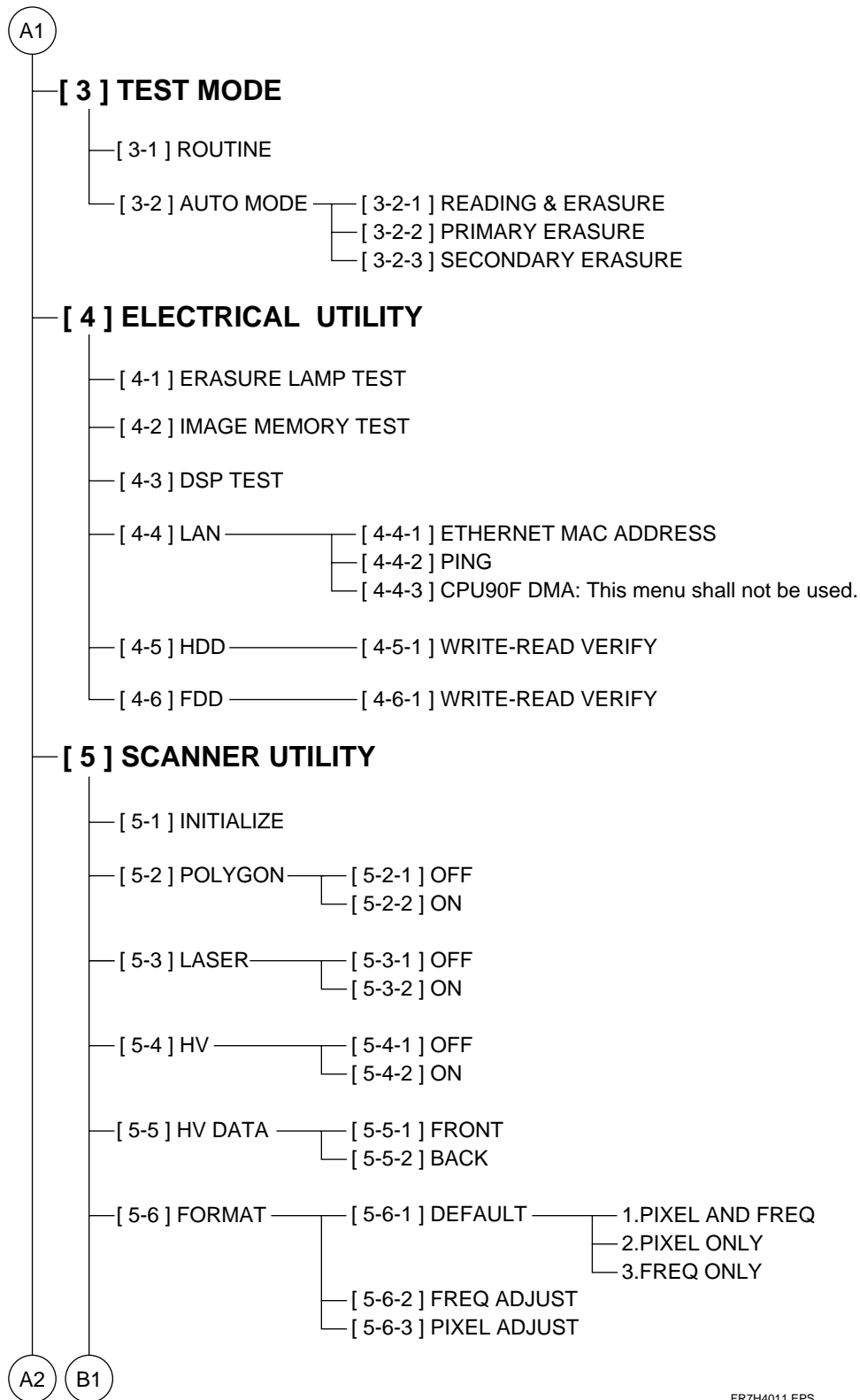
The M-Utility provides utility functions intended exclusively for use by a service engineer.

(2) M-Utility tree

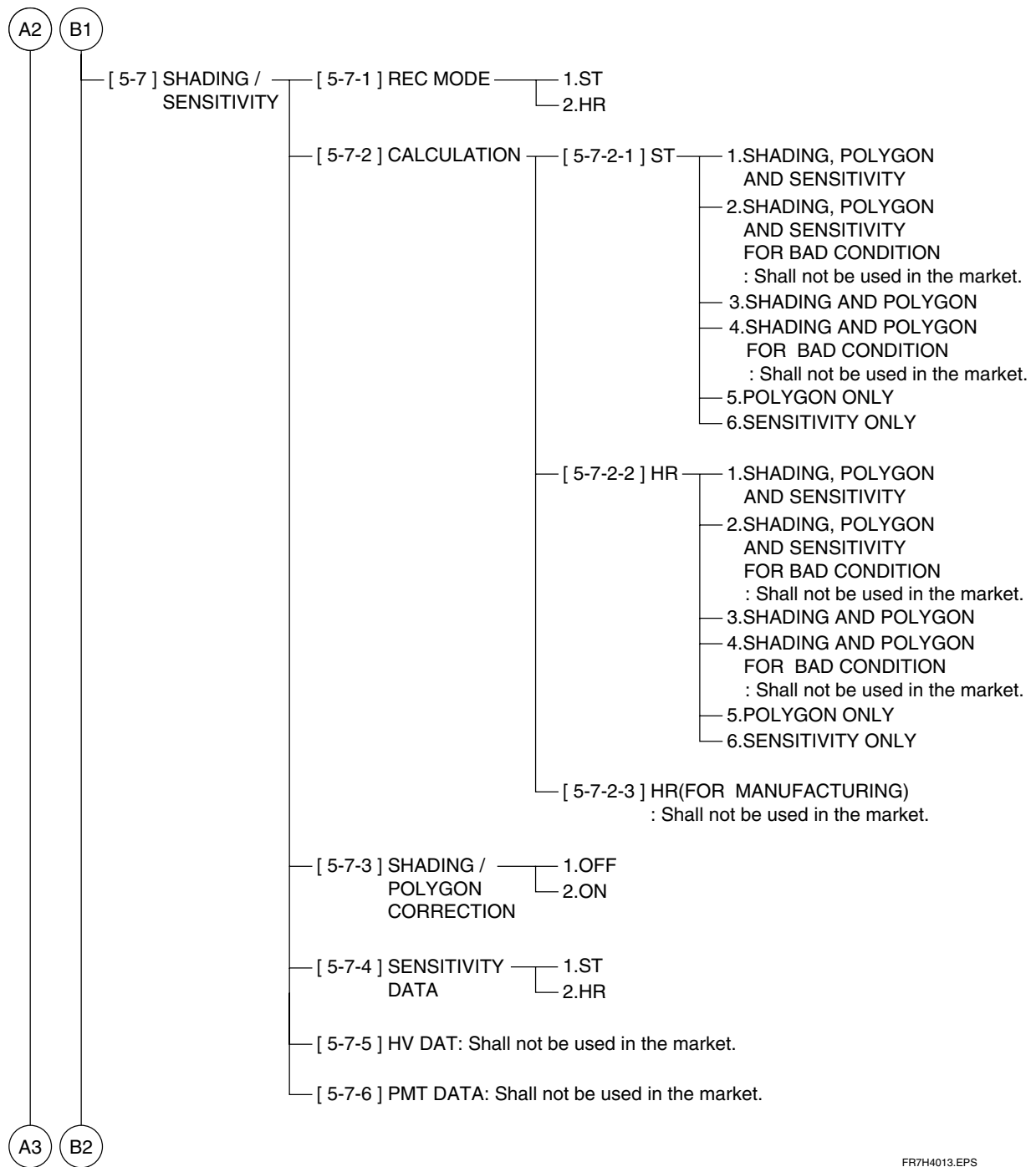
■ Routine Operation



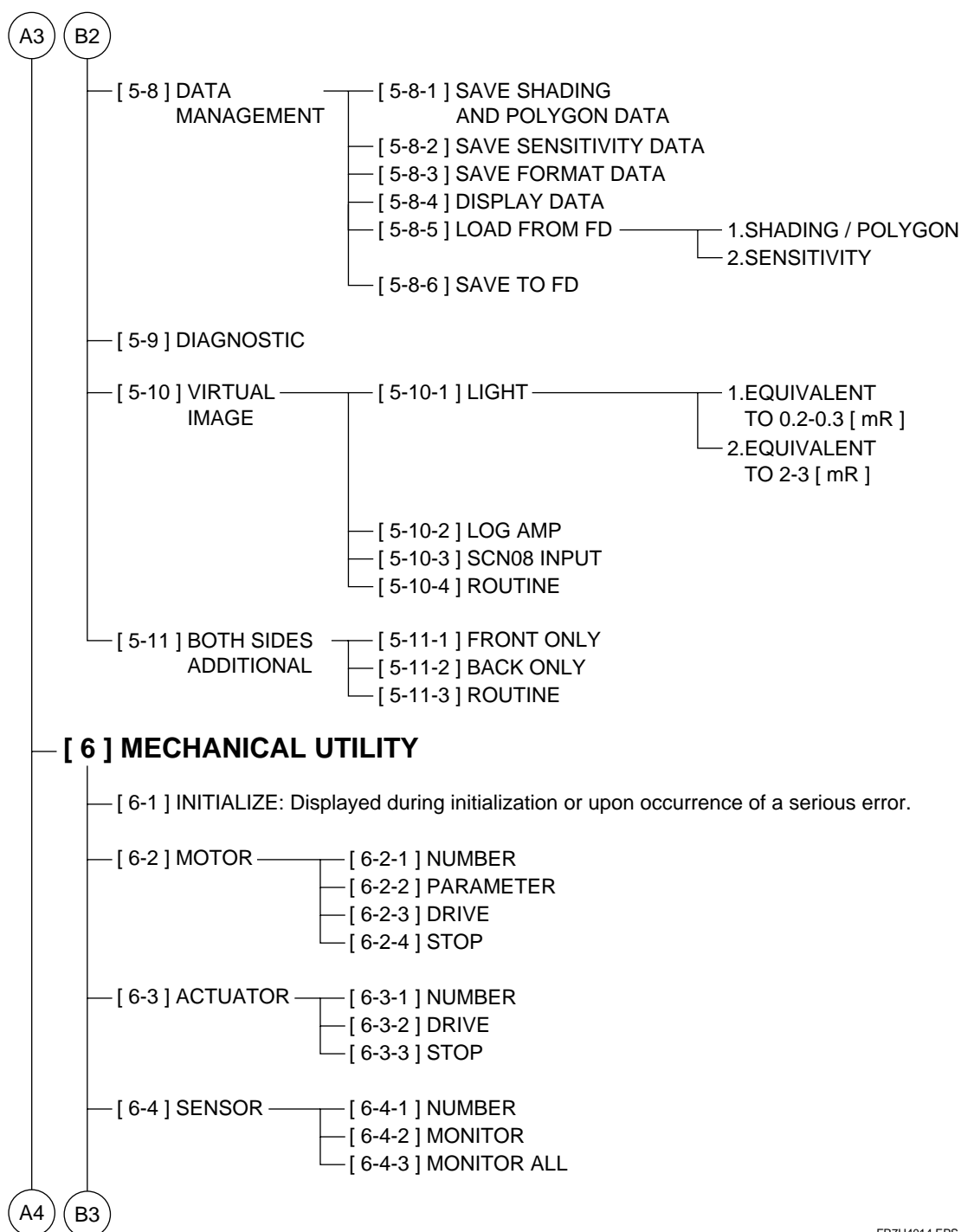
FR7H4010.EPS



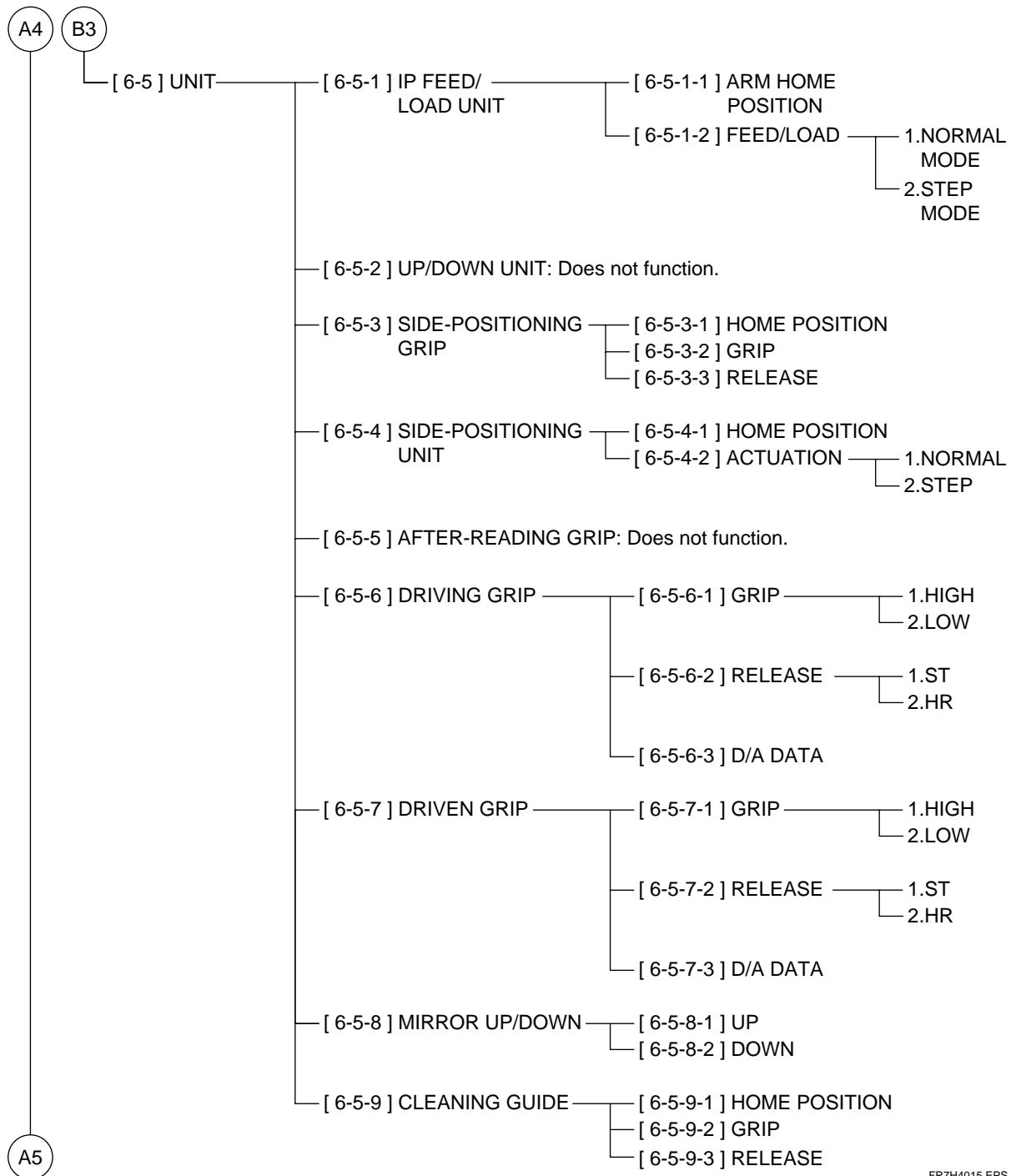
FR7H4011.EPS



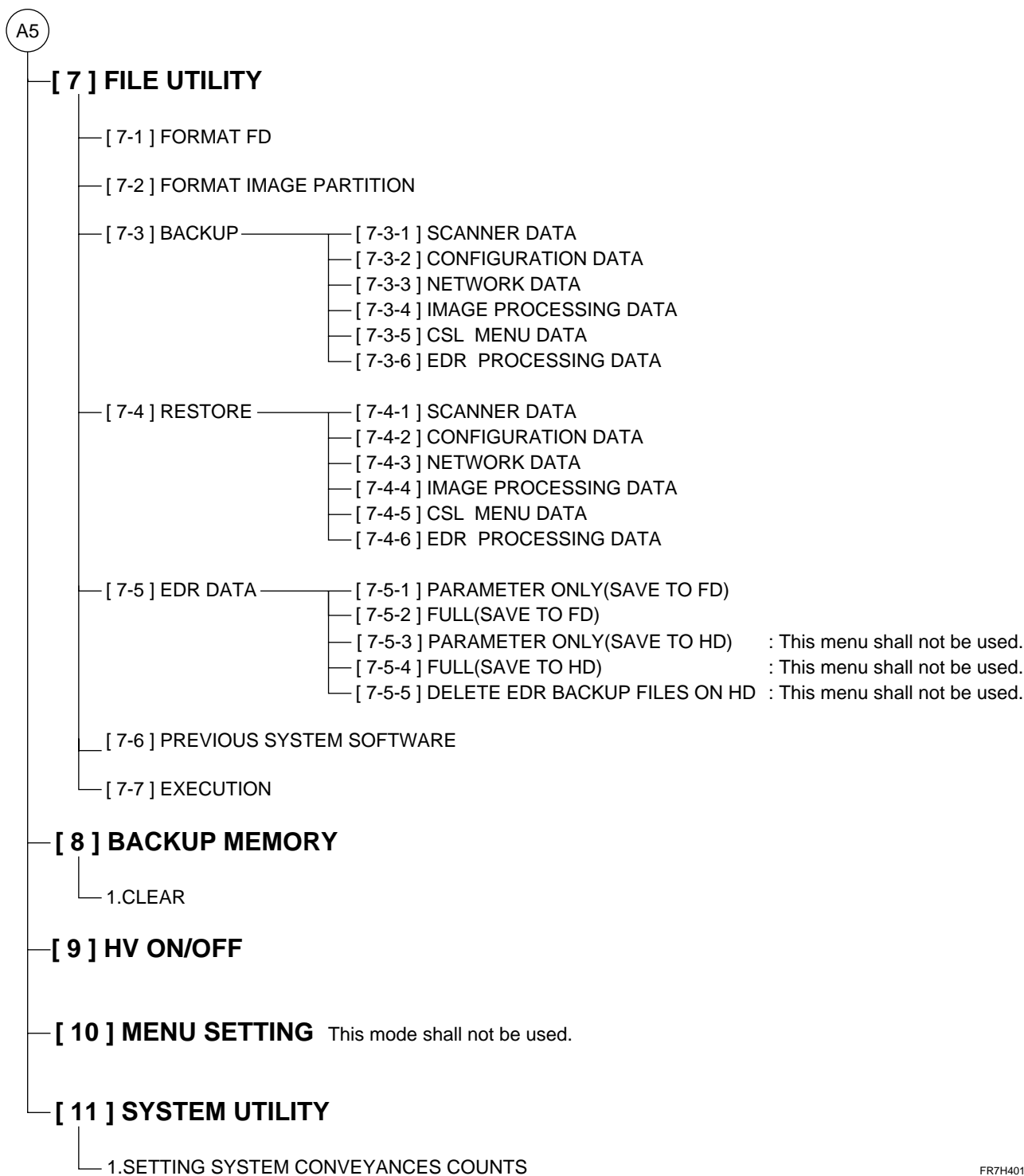
FR7H4013.EPS



FR7H4014.EPS



FR7H4015.EPS



FR7H4016.EPS

(3) M-Utility operation

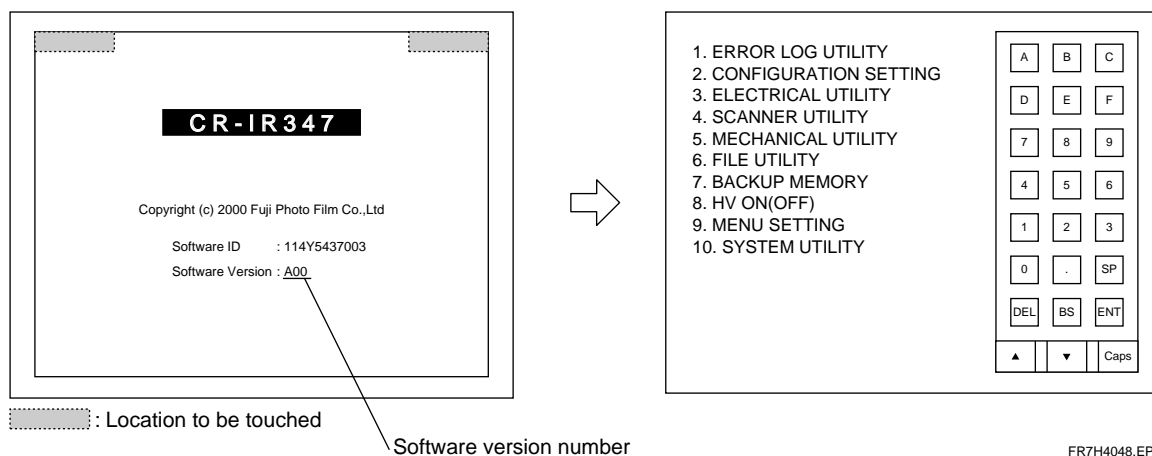
■ Starting the M-Utility (Three Scenarios)

- Starting the M-Utility from the initialization process mode

After the machine is powered ON, the initialization screen appears, and subsequently a software version number is displayed for about five seconds. During that period of time, touch the upper left-hand corner of the operation panel, and then, within two seconds, the upper right-hand corner.

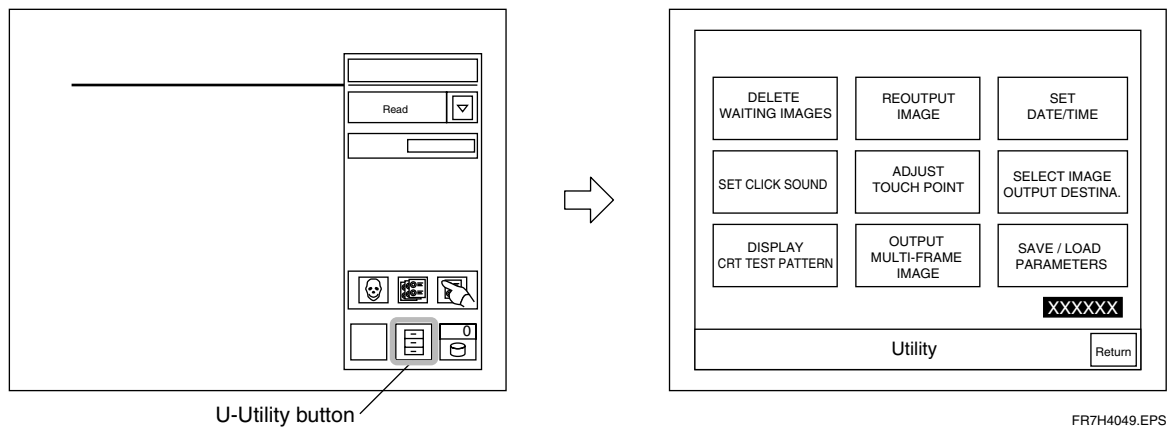
◆ NOTE ◆

After the display of the software version number ends, the operation panel does not respond at all even if you touch it. In such an instance, perform a reset and wait until the software version number appears on the screen, or enter the routine process mode and then start the M-Utility.

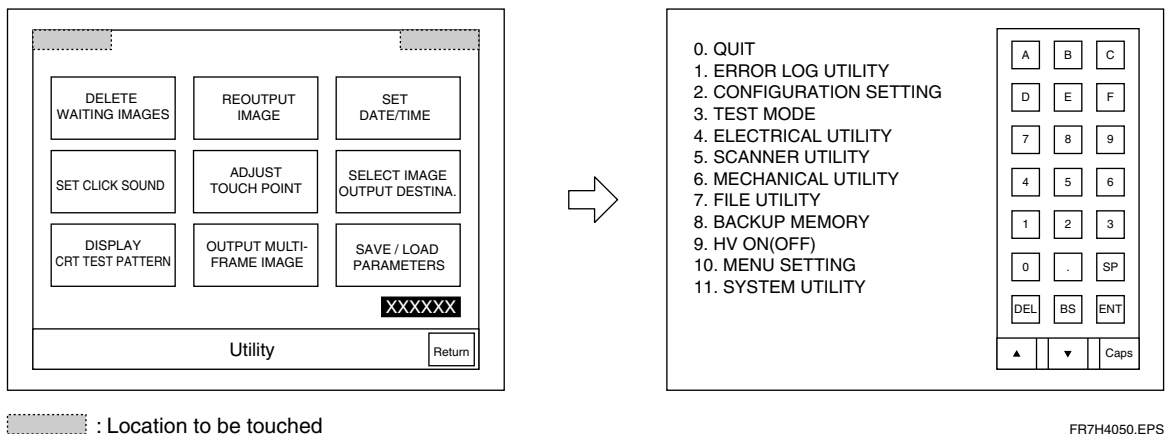


● Starting the M-Utility from the routine process mode (routine mode)

(1) Press the U-Utility button.

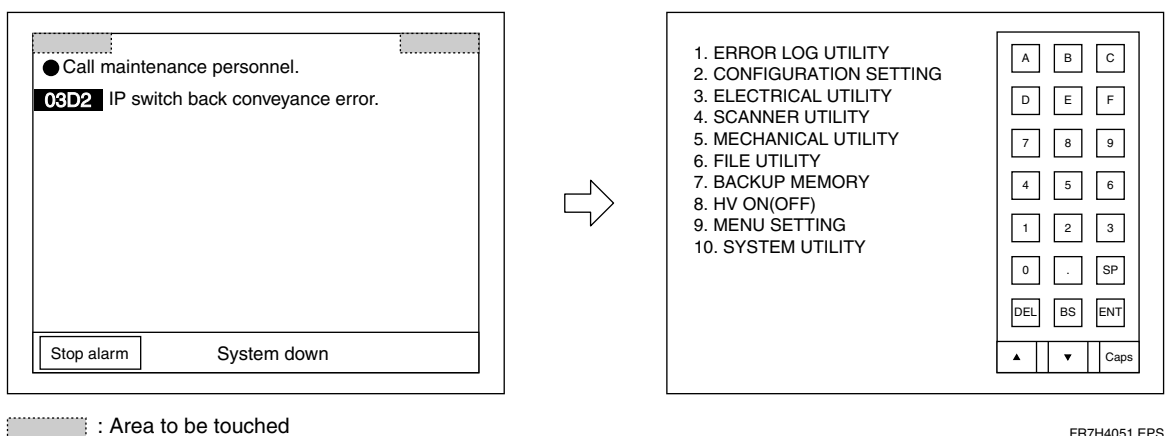


(2) Touch the upper left-hand corner of the touch panel, and then, within two seconds, touch the upper right-hand corner.



● Starting the M-Utility from the abnormality process mode

Touch the upper left-hand corner of the operation panel, and then, within two seconds, touch the upper right-hand corner.



■ Exiting M-Utility

◆ **NOTE** ◆

If M-Utility is entered during the initialization sequence, "0. QUIT" does not appear. Thus, after quitting M-Utility, the machine should be reset.

- (1) While the M-Utility main menu is displayed, select "0. QUIT".
- (2) Press the reset button.

(4) Common Operating Procedures for M-Utility

■ Selecting a Menu (Two Scenarios)

- While the ">" cursor is displayed, enter a menu number.

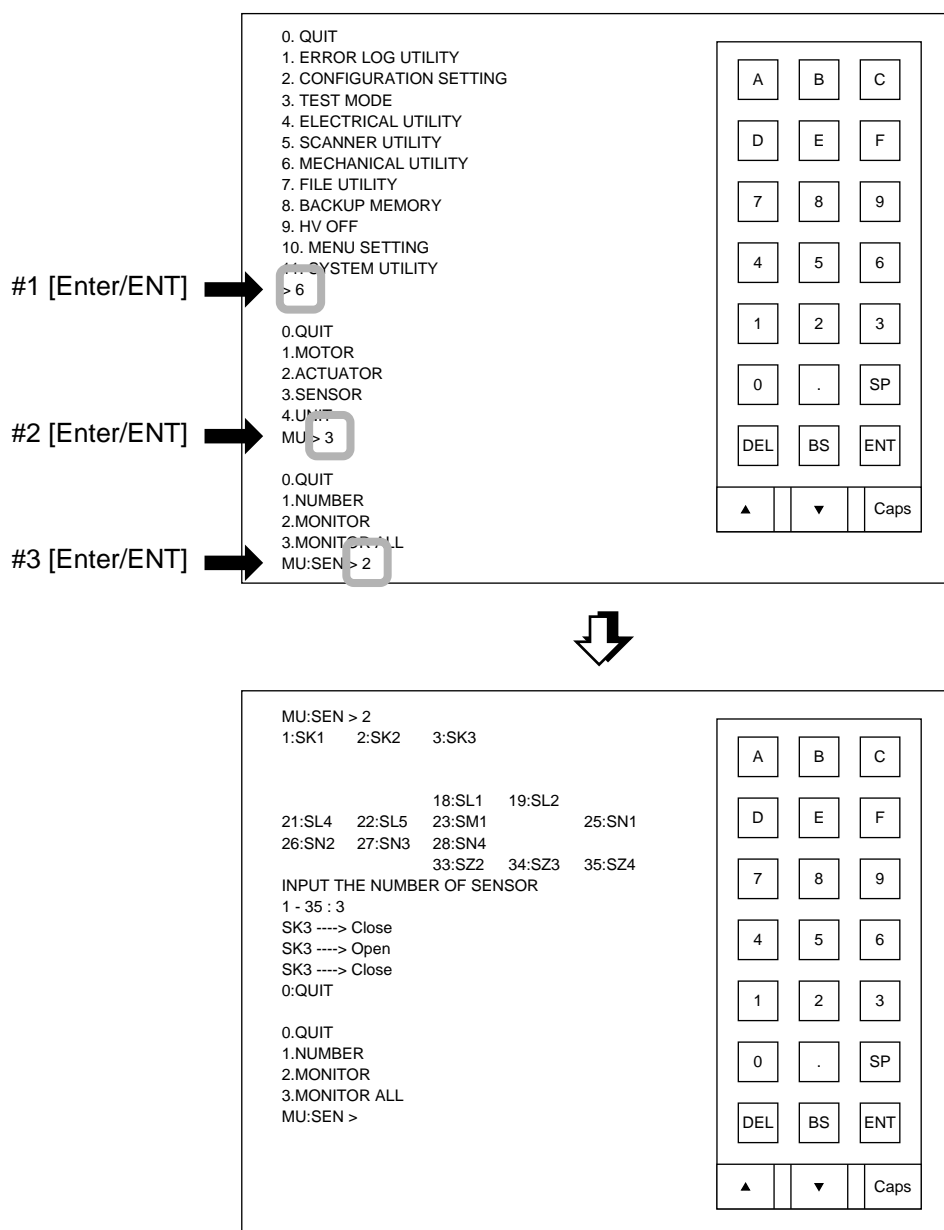
The system displays the lower-level menu or immediately executes the designated menu and shows the result.

- Automatic menu selection upon a menu selection

When you select a menu, the system automatically selects the associated menu.

Example) The sensor list menu appears.

Select "6. MECHANICAL UTILITY", "3. SENSOR", and "2. MONITOR" in sequence.



FR7H4007.EPS

■ Quitting a Menu

● Selecting “QUIT”

When you select “QUIT” on a menu, one of the following results follows.

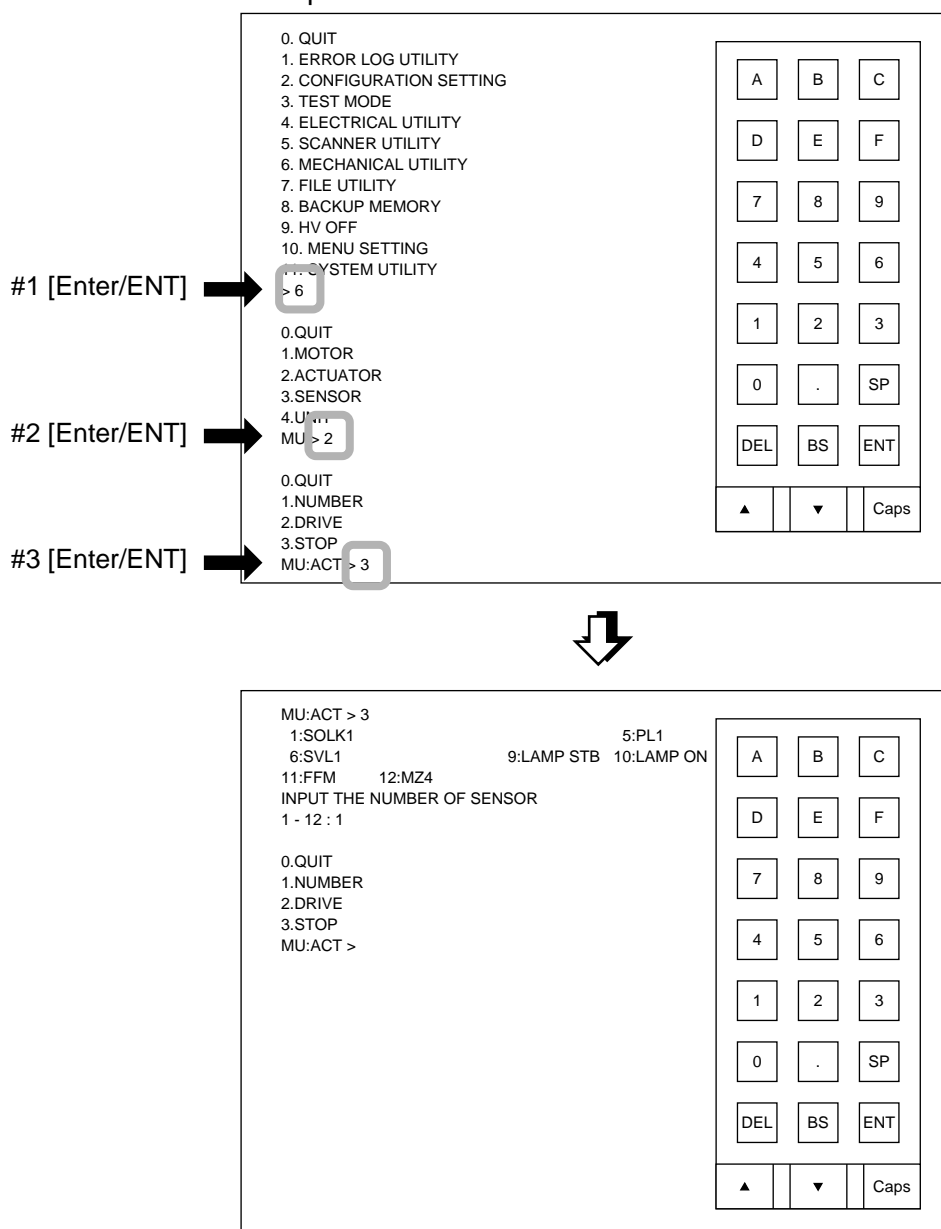
- When a menu item is displayed, the system returns to the upper-level menu.
- When the main menu is displayed, the system exits M-Utility and switches to U-Utility.
- The system stops the current menu execution (operation).
- The system returns to the upper-level menu while continuing with the current menu execution (operation).

● Selecting “STOP”

Select “STOP”, the actuator or motor operation (DRIVE) ends.

Example: “3. STOP” is selected.

When you select “6. MECHANICAL UTILITY”, “3. SENSOR”, and “2. MONITOR” in sequence

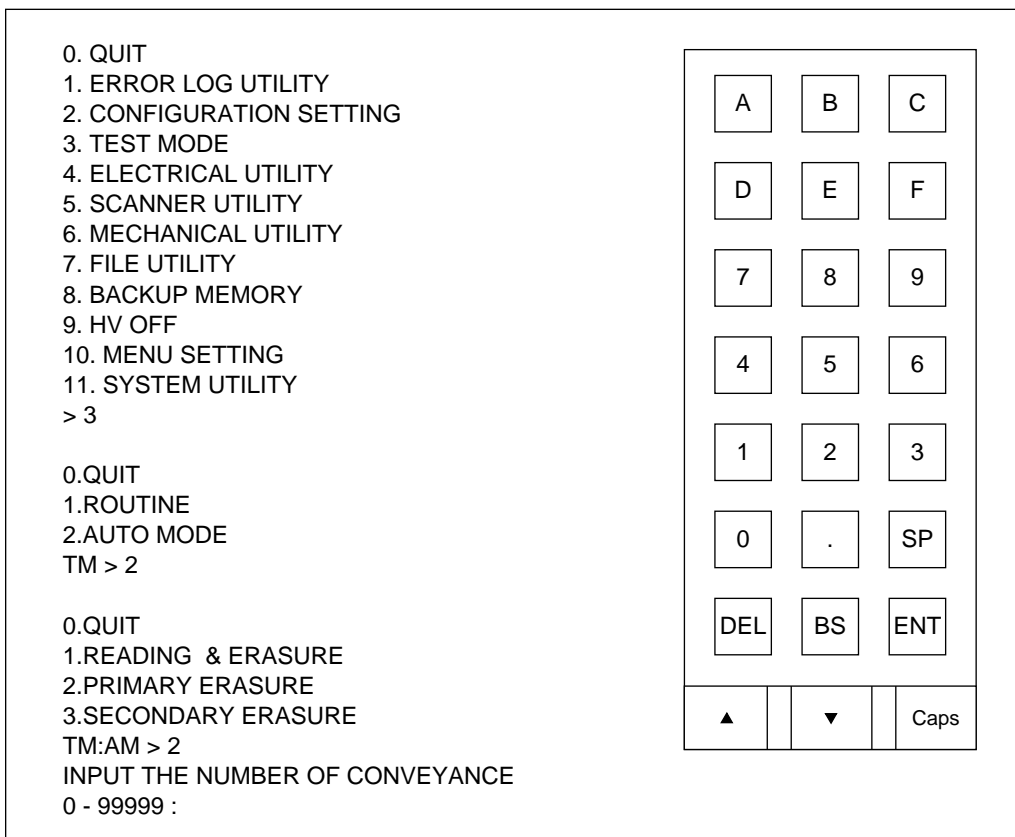


FR7H4008.EPS

■ Entering a Numerical Value

● Displaying Virtual Keyboard for Entry

Three types of virtual keyboards are available; by touching the ▲ or ▼ key, one of the three virtual keyboards can be selected. Also, by touching the [Caps] key, the caps mode can be toggled to the lower-cap display corresponding to the three types of virtual keyboards.



FR7H4009.EPS

● Correcting a value entry

You can correct a value entry with the [DEL] or [BS] key.

- [DEL] key: Each time you touch this key, it erases the character above the cursor.
- [BS] key: Each time you touch this key, it erases the character preceding (positioned to the left of) the cursor position.

Example) Changing the numerical entry from 9801 to 9901

- 1) Touch the operation panel to position the cursor under "0".
- 2) Touch the [BS] key once to delete "8".
- 3) Touch 9.

■ Menu Hierarchy of M-Utility in Initialization Sequence or in Serious Error

During the initialization sequence or upon occurrence of serious error (i.e., when the mode switches from the error message displayed status to M-Utility), the basic menu structure is the same as in normal operation, except some of the menus are omitted.

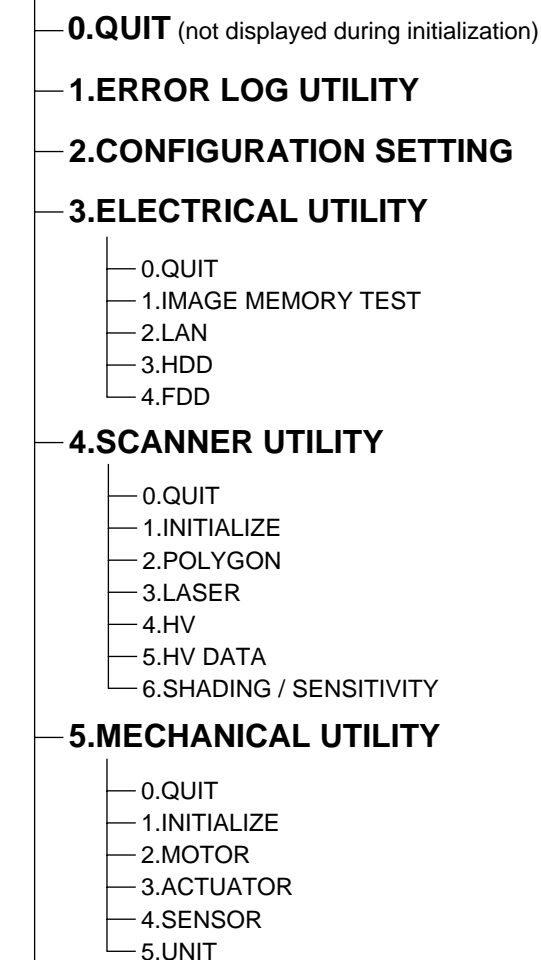
For your reference, the upper menu hierarchy is shown below.

● Menu Hierarchy in Initialization Sequence or in Serious Error

◆ **NOTE** ◆

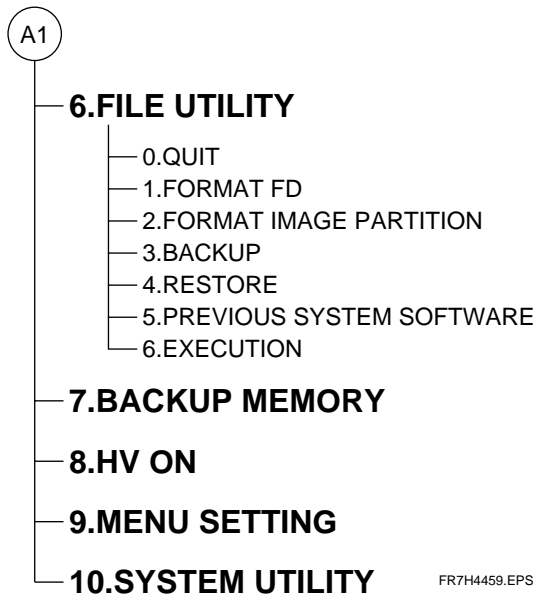
Before using the MECHANICAL UTILITY in initialization sequence or in serious error, be sure to run "1. INITIALIZE" to initialize the motors, actuators, and sensors.

MAINTENANCE UTILITY



A1

FR7H4018.EPS



FR7H4459.EPS

(5) M-Utility commands

[1] ERROR LOG UTILITY

[1-1] LIST

The content of the error log is displayed.

[1-1-1] ALL

Error codes generated are all displayed in reverse chronological (from latest to oldest) order.

(1) Execute "1. ALL".

(2) Select the error level (either "1", "2", or "3").

1. **ERROR** : 0XXX error, 1XXX error
2. **WARNING** : 2XXX error, 3XXX error
3. **BOTH** : 0XXX error, 1XXX error, 2XXX error, 3XXX error

```
CODE DATE
XXXX AAAA.BB.CC DD:EE
      YYYYY.....
      .
      .
      .
      .
      .
      .
```

* ➔ 0.END 1.NEXT 2.BEFORE (DEFAULT=1) :

FR7H4053.EPS

- **XXXX** : Error code (four digits)
- **AA EE** : Error occurrence date and time (12 digits)
- **YY ...** : Detail code (not displayed when the detail code is not available)

* The following four patterns of display are available.

- 0. **END (DEFAULT=0)** : Neither previous page nor next page is available.
- 0. **END 1. NEXT (DEFAULT=1)** : Only next page is available.
- 0. **END 1. NEXT 2. BEFORE (DEFAULT=1)** : Both previous page and next page are available.
- 0. **END 1. BEFORE (DEFAULT=0)** : Only previous page is available.

<When the error log is not available>

```
THE ERROR LOG IS EMPTY.
```

FR7H4458.EPS

[1-1-2] SUMMARY

The number of occurrences for each error code generated is displayed.

(1) Execute "2. SUMMARY".

(2) Select the error level (either "1", "2", or "3").

- 1. **ERROR** : 0XXX error, 1XXX error
- 2. **WARNING** : 2XXX error, 3XXX error
- 3. **BOTH** : 0XXX error, 1XXX error, 2XXX error, 3XXX error

CODE	DATE	COUNT
XXXX	AAAA.BB.CC DD:EE	YYYY
	.	
	.	
	.	
	.	
* → 0.END	1.NEXT	2.BEFORE (DEFAULT=1) :

FR7H4055.EPS

- **XXXX** : Error code (four digits)
- **AA EE** : Error occurrence date and time (12 digits)
- **YYYY** : Number of error occurrences (four digits)

* The following four patterns of display are available.

0. **END (DEFAULT=0)** : Neither previous page nor next page is available.

0. **END 1. NEXT (DEFAULT=1)** : Only next page is available.

0. **END 1. NEXT 2. BEFORE (DEFAULT=1)**
: Both previous page and next page are available.

0. **END 1. BEFORE (DEFAULT=0)** : Only previous page is available.

<When the error log is not available>

THE ERROR LOG IS EMPTY.

FR7H4299.EPS

[1-2] CLEAR

All the error logs are cleared.

(1) Select "2. CLEAR" and "1. ERROR LOG" in sequence.

ARE YOU SURE TO CLEAR ALL ERROR LOGS ?
1.YES 2.NO (DEFAULT=2) :

FR7H4056.EPS

(2) Select "1.YES".

When "2. NO" is selected, the menu display reverts back without clearing the error log.

ERROR LOGS ARE CLEARED .

FR7H4057.EPS

[1-3] SAVE TO FD**CAUTION**

While a file is being saved, never power OFF the machine or press the FD eject button because the floppy disk or floppy disk drive may be damaged.

Error log data and trace data is saved to a floppy disk

[1-3-1] ERROR LOG

The error log file is overwritten to a floppy disk.

- (1) Execute "1. ERROR LOG".

```
PLEASE SET A FD.
ARE YOU SURE TO SAVE ERROR LOGS TO THE FD?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4058.EPS

- (2) Put a floppy disk into the machine and select "1. YES".

(If "2. NO" is selected, the menu display screen will return without deleting the error logs.)

<When the file was saved>

```
XXXXXXXXXXXX IS SAVED.
```

FR7H4059.EPS

XXXXXXXXXXXX: File name

<When the file cannot be saved in a single floppy disk>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4060.EPS

Enter either of the following numbers and press the [ENT] key.

- 1. **CONTINUE** : Continue to save the error log file to another floppy disk.
- 2. **CANCEL** : Stop saving of the error log file to the floppy disk.

<When an error occurred>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX, errno=YYYYYYYY)
```

FR7H4300.EPS

XXXXXXXXXXXX: File name

YYYYYYYY: Detail code

[1-3-2] TRACE DATA

Trace data files having extensions “.001” through “.005” are overwritten to a floppy disk.

- (1) Execute “2. TRACE DATA”.

```
PLEASE SET A FD.
ARE YOU SURE TO SAVE ERROR LOGS TO THE FD?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4301.EPS

- (2) Put a floppy disk into the machine and select “1. YES”.

(If “2. NO” is selected, the menu display screen will return without deleting the error logs.)

<When the file was saved>

```
XXXXXXXXXXXX IS SAVED.
```

FR7H4302.EPS

XXXXXXXXXXXX: File name

<When the file cannot be saved in a single floppy disk>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4303.EPS

Enter either of the following numbers and press the [ENT] key.

1. **CONTINUE** : Continue to save the error log file to another floppy disk.
2. **CANCEL** : Stop saving of the error log file to the floppy disk.

<When an error occurred>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX, errno=YYYYYYYY)
```

FR7H4304.EPS

XXXXXXXXXXXX: File name

YYYYYYYY : Detail code

[1-3-3] IOT DATA

The time when a file is saved, with an extension “.IOT” attached, is saved to a floppy disk.

- (1) Execute “3. IOT DATA”.

ARE YOU SURE TO SAVE ERROR LOGS TO THE FD?
1.YES 2.NO (DEFAULT=2) :

FR7H4305.EPS

- (2) Put a floppy disk into the machine and select “1.YES”.

(If “2. NO” is selected, the menu display screen will return without deleting the error logs.)

<When the file was saved>

XXXXXXXXXX IS SAVED.

FR7H4306.EPS

XXXXXXXXXX: File name

<When the file cannot be saved in a single floppy disk>

THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :

FR7H4307.EPS

Enter either of the following numbers and press the [ENT] key.

1. **CONTINUE** : Continue to save the error log file to another floppy disk.
2. **CANCEL** : Stop saving of the error log file to the floppy disk.

<When an error occurred>

FILE I/O ERROR. (FILE=XXXXXXXXXX, errno=YYYYYYYY)

FR7H4308.EPS

XXXXXXXXXX: File name

YYYYYYYY : Detail code

[1-4] SAVE TO HD**CAUTION**

While a file is being saved, never power OFF the machine because the hard disk may be damaged.

[1-4-1] ERROR LOG

The error logs are saved to the hard disk.

- (1) Select "1. ERROR LOG".

ARE YOU SURE TO SAVE ERROR LOGS TO THE FD?
1.YES 2.NO (DEFAULT=2) :

FR7H4305.EPS

- (2) Put a floppy disk into the machine and select "1.YES".

(If "2. NO" is selected, the menu display screen will return without deleting the error logs.)

<When the file was saved>

XXXXXXXXXX IS SAVED.

FR7H4306.EPS

XXXXXXXXXX: File name

<When an error occurred>

FILE I/O ERROR. (FILE=XXXXXXXXXX, errno=YYYYYYYY)

FR7H4310.EPS

XXXXXXXXXX: File name

YYYYYYYY : Detail code

BLANK PAGE

[2] CONFIGURATION SETTING

[2-1] SYSTEM (IRSET.CFG)

It defines overall setup information regarding the machine.

■ Editing the Configuration Setup

A specific editing method is described below, using "SYSTEM (IRSET.CFG)" by way of example.

◇ SUPPLEMENTARY NOTES ◇

- “#” at the beginning of a sentence means that the sentence is a comment, so the description thereafter does not provide configuration setting. A comment describes remarks, such as explanation about a setup item and choices of items.
- “↵” represents a carriage return.

Comment	# ↵ # IRSET.ORG/CFG ↵ # ↵ ↵	<table border="1"> <tr><td>A</td><td>B</td><td>C</td></tr> <tr><td>D</td><td>E</td><td>F</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> </table>	A	B	C	D	E	F	7	8	9
A	B		C								
D	E		F								
7	8		9								
Setup item	IDT=0↵										
Comment	#1.System Type ↵ # 0:CSL / 1:IDT↵ ↵										

FR7H4021.EPS

(1) Select “2. CONFIGURATION SETTING” and “1. SYSTEM”.

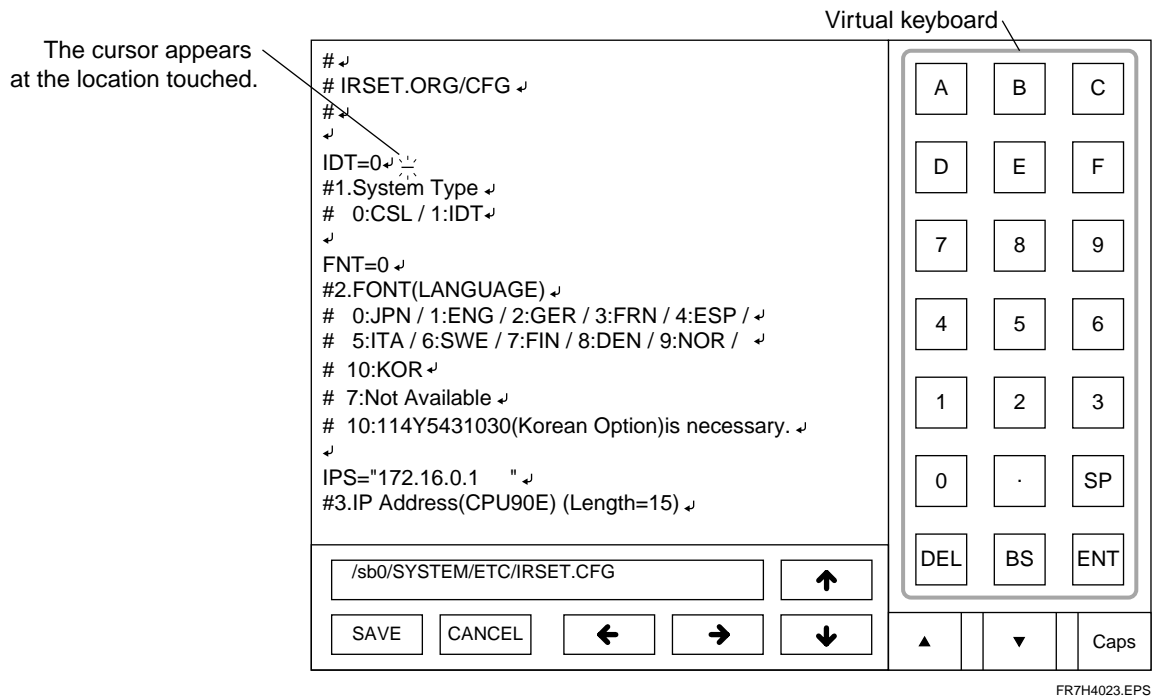
⇒ The contents of SYSTEM (IRSET.CFG) are displayed.

# ↵ # IRSET.ORG/CFG ↵ # ↵ ↵ IDT=0↵ #1.System Type ↵ # 0:CSL / 1:IDT↵ ↵ FNT=0 ↵ #2.FONT(LANGUAGE) ↵ # 0:JPN / 1:ENG / 2:GER / 3:FRN / 4:ESP / ↵ # 5:ITA / 6:SWE / 7:FIN / 8:DEN / 9:NOR / ↵ # 10:KOR ↵ # 7:Not Available ↵ # 10:114Y5431030(Korean Option)is necessary. ↵ ↵ IPS="172.16.0.1 "↵ #3.IP Address(CPU90E) (Length=15) ↵	<table border="1"> <tr><td>A</td><td>B</td><td>C</td></tr> <tr><td>D</td><td>E</td><td>F</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>0</td><td>.</td><td>SP</td></tr> <tr><td>DEL</td><td>BS</td><td>ENT</td></tr> </table>	A	B	C	D	E	F	7	8	9	4	5	6	1	2	3	0	.	SP	DEL	BS	ENT
A		B	C																			
D		E	F																			
7		8	9																			
4	5	6																				
1	2	3																				
0	.	SP																				
DEL	BS	ENT																				
<input type="text" value="/sb0/SYSTEM/ETC/IRSET.CFG"/> <input type="button" value="↑"/>																						
<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/> <input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="↓"/>																						
<input type="button" value="▲"/> <input type="button" value="▼"/> <input type="button" value="Caps"/>																						

FR7H4022.EPS

- (2) Touch the location to be edited.

The cursor can be moved by touching the ↑, ↓, ←, or → key.



- (3) Back up the configuration file that has been set up.

☞ "■ Backing Up Configuration File"

- (4) Press the RESET button.

◇ SUPPLEMENTARY NOTE ◇

If there is any other configuration item to be set up, do not press the RESET button. The RESET button should be pressed after all the setups are finished.

■ For Installation by Copying Configuration Files

If several CR-IR347 machines are installed within the same network, installation can be done by copying the setup contents of one machine to another.

Note, however, that the settings should be changed as appropriate for the following three items of SYSTEM.



CAUTION

Items that Should be Changed for Second and Subsequent Machines

3. IPS: Standard LAN IP address

→ IP addresses that are not duplicated within the same network should be assigned.

4. IPI: LAN board IP address

→ IP addresses that are not duplicated within the same network should be assigned.

8. SID: Reader number

→ Reader numbers that are not duplicated within the same network should be assigned.

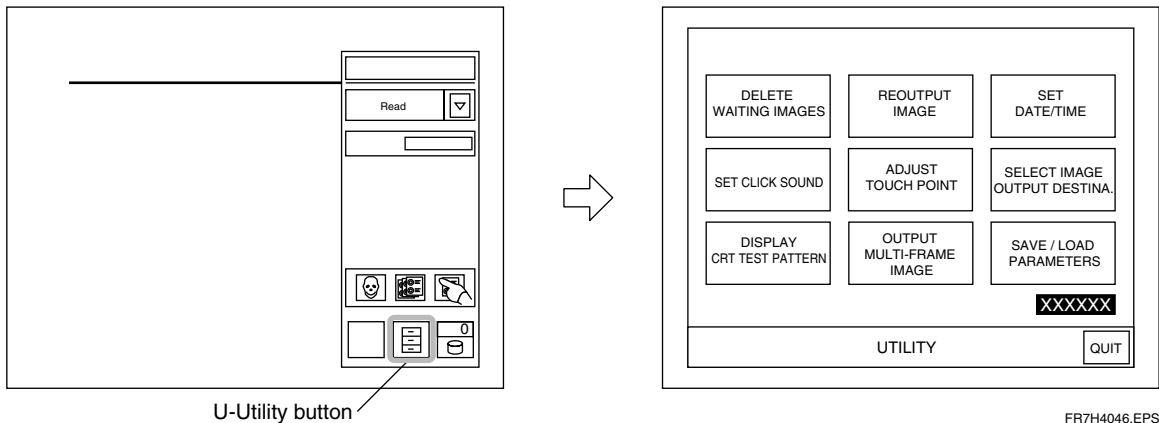
■ Backing Up Configuration File



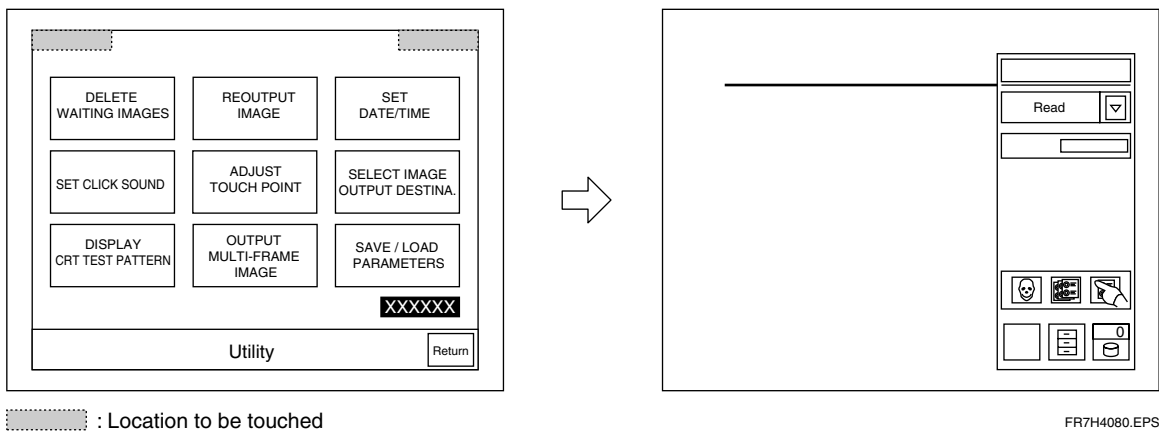
CAUTIONS

- Never power OFF the machine or press the FD eject button during file saving. The FD or FD drive may be damaged.
- Once a setup file is edited, be sure to reset the machine after exiting M-Utility.

- (1) Put a backup floppy disk into the floppy disk drive.
- (2) Touch the U-Utility button.



- (3) Touch the upper left and upper right corners of the operation panel in sequence.



- (4) Select "7. FILE UTILITY".
- (5) Select "3. BACK UP", "2. CONFIGURATION DATA" and "1. YES" in sequence.

The following files are saved to the floppy disk.

- SYSTEM (IRSET.CFG,IRSET.ORG)
- PRINT (FILFMT.CFG,FILFMT.ORG)
- IRSTATUS (IRSTATUS.CFG,IRSTATUS.ORG)

◆ **NOTE** ◆

The menu parameters saved in the floppy disk also contain the language setting for the machine. Thus, if the language setting differs during RESTORE and during BACK UP, the file cannot be read during RESTORE.

- (6) Select "3. BACK UP", "3. NETWORK DATA" and "1. YES" in sequence.

The following files are saved to the floppy disk.

- REMOTE SWITCH (RMT_SW.CFG)
- EQUIPMENT (EQUIP)
- NETWORK HOST INTERFACE (DEVICE)
- HOSTS ADDRESS (HOST)
- DISTRIBUTION (CODEDSTB)
- ROUTING (ROUTE)
- NETMASKS (NETMASKS)
- DICOM (DICOM)

◆ **NOTE** ◆

The menu parameters saved in the floppy disk also contain the language setting for the machine. Thus, if the language setting differs during RESTORE and during BACK UP, the file cannot be read during RESTORE.

- (7) Select "0. QUIT" repeatedly.

BLANK PAGE

■ List of Setup Items for SYSTEM (IRSET.CFG)

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
1	○	IDT	1	IDT connection type/CSL function incorporated type changeover	0: CSL 1: IDT
2	○	FNT	0	Language setting	0: Japanese 1: English 2: German 3: French 4: Spanish 5: Italian 6: Swedish 7: Finnish 8: Danish 9: Norwegian 10: Korean (optional software required)
3	○	IPS	172.16.0.1	CPU90E board IP address (IP address for network connection)	<CAUTION> Its setup value should always be described in fifteen digits stuffed to the left. If the number of digits is less than 15, space should be added to the end to meet the 15-digit requirement. "172.16.0.1 △△△△△" (△: Space)
4	○	IPI	172.16.0.2	CPU90F board IP address (IP address for network connection)	<CAUTIONS> · Its setup value should always be described in fifteen digits stuffed to the left. If the number of digits is less than 15, space should be added to the end to meet the 15-digit requirement. · Be sure to set its IP address, even if the CPU90F board is not available as an option. (Default value) "172.16.0.2△△△△△" (△: Space)
5	○	ILA	1	Setup for the CPU board to which the IDT is connected	0: CPU90E 1: CPU90F (Optional)
6	○	SCD	D3	Unit code (2 characters)	D3: CR-IR347 <CAUTION> Shall not be changed.
7	○	SMJ	5000MA	Unit character string (6 characters).	5000MA
8	○	SID	A	Reader number (A through Z: unique symbol)	<REFERENCE> If multiple FCR readers are connected within the same network, assigning a unique, non-overlapped symbol (A through Z) to each of the readers causes that symbol to be indicated as the first digit of the image number on the output film, so that the reader as the image data destination can respond accordingly.
9		SFC	0	Manual sensitivity setup	0: OFF 1: Standard, Semi-High-Speed 2: Standard, Semi-High-Speed, High-Speed *
10		SFD	0	Manual sensitivity default setup	0: Standard 1: Semi-High-Speed 2: High-Speed 3: (Depend on menu default = Memory)

*: If "SFC" is set to either "1" or "2", the ID/Menu cannot be entered after image preview.

TR7H4001.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
11		LGR	0	Logical reading setup	0: OFF 1: ON * <REFERENCE> It sets to determine whether to read the data on the IP in sizes smaller than the actual IP size (to implement logical reading).
12	○	XRY	0	Message setup for overexposure reading	0: LOG & MESSAGE 1: LOG ONLY 2: NONE <CAUTION> Care should be exercised when changing this setup.
13	○	U_MF	1	Multi-frame (2-in-1/4-in-1) key display setup for U-UTILITY display screen	0: Displayed 1: Not displayed
14	○	SS1	5	Screen saver timer setting (variable in 1 minute increments)	0-60 [min] <REFERENCE> • When a cassette is inserted, the screen saver, even if activated, is automatically disabled. • 0: Screen saver disabled
15	○	ITV	30	Setup for time awaiting reoutput to DMS	0-60 [sec]
16	○	CPS	5	Setup for consecutive storage process count for reoutput image to DMS	0-10 [sheets]
17		ID_EDR	0	EDR setup range	0: AUTO,SEMI,FIX 1: AUTO,SEMI, FIX,SEMI-X 2: AUTO,SEMI, FIX,SEMI-X,MANUAL <REFERENCE> Used to select the display range for EDR process mode key.
18	○	ID_FILING	0	Image density setup for OD-F filing	0: DISABLE (Always saved in high density) 1: OFF , ON1 (Save in standard for standard or in HQ for HQ) 2: OFF, ON*, ON (Saved with HQ reduced)
19		ID_FUNC	0	Function setup enabled/disabled	0: DISABLE 1: ENABLE
20		ID_FILMC	0	FILM character setting enabled /disabled	0: OFF 1: ON
21		ID_BIRTH	2	Birth date input format	0: JAPANESE DATE (H10.04.01) 1: ANSI LONG DATE (1998.APR.01) 2: ANSI SHORT DATE (1998.04.01) 3: AMERICAN LONG DATE (APR.01.1998) 4: AMERICAN SHORT DATE (04.01.1998) 5: EUROPEAN LONG DATE (01.APR.1998) 6: EUROPEAN SHORT DATE (01.04.1998)

* : If "LGR" is set to "1", the ID/Menu cannot be entered after image preview.

TR7H4002.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
22		ID_SEARCH	0	Search key type for ID online (TYPE_B)	0: ID# 1: ID#, RECEIPT# 2: ID#, EXAM# 3: ID#, RECEIPT#, EXAM# <REFERENCE> Used to select either ID number, receipt number, or examination number to be displayed as a search key during connection with HIS.
23		ID_LENGTH	10	Setting of ID number character string length	1-10: ID_INFO_TYPE=0 1-64: ID_INFO_TYPE=1
24		ID_PADDING	0	Setting of ID number padding scheme	0: Pad with space to the head (Ex. " 1234567") 1: Pad with zero to the head (Ex. "0001234567") 2: Pad with space to the tail (Ex. "1234567 ") 3: Pad with zero to the tail (Ex. "1234567000")
25		RECEIPT_LENGTH	5	Setting of receipt number character string length	1-5 : ID_INFO_TYPE=0 1-16: ID_INFO_TYPE=1
26		RECEIPT_PADDING	0	Setting of receipt number padding scheme	0: Pad with space to the head (Ex. " 123") 1: Pad with zero to the head (Ex. "00123") 2: Pad with space to the tail (Ex. "123 ") 3: Pad with zero to the tail (Ex. "12300")
27		EXAM_LENGTH	10	Setting of examination number character string length	1-10: ID_INFO_TYPE=0 1-16: ID_INFO_TYPE=1
28		EXAM_PADDING	0	Setting of examination number padding scheme	0: Pad with space to the head (Ex. " 1234567") 1: Pad with zero to the head (Ex. "0001234567") 2: Pad with space to the tail (Ex. "1234567 ") 3: Pad with zero to the tail (Ex. "1234567000")

TR7H4003.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
29	○	IFT	0	I/F type	RESERVE <CAUTION> Change unnecessary.
30	○	PRO	0	Function image protect (image protect on HIC)	0: NONE 1: TS (Temporary subtraction) 2: ES (Energy subtraction) 3: MS (Multilayer tomography) 4: MX (Multi-integrated processing) 5: WS (Whole spine) 6: PS (IVP) 7: TM (Tomography) 8: TX (Temporary subtraction, overall processing) 9: WX (Whole spine, overall processing) 10: EX (Energy subtraction, overall processing) 11: AS (Inter-image operation) 99: ALL <REFERENCE> Use to set the type of screen that enables the screen protection function of HI-C.
31	○	SF1	50	Sensitivity median shift 1 (relatively high sensitivity)	0-299 <CAUTION> Change unnecessary.
32	○	SF2	100	Sensitivity median shift 2 (high sensitivity)	0-299 <CAUTION> Change unnecessary.
33	○	GRP	0	Group information setup method for sorting	0: None 1: space (2) + department name (8) 2: department name (4) + menu (6) 3: department name (4) + film mark (6) 4: unit code (1) + space (9) 5: space (4) + MPM (4) + space (2) 6: space (4) + film mark (6) 7: department name (4) + MPM (4) + space (2) <CAUTION> Indent
34	○	PTR	0	Position of film mark or menu character string outputted with GRP (valid when GRP = 2, 3, 6)	0-F(hexadecimal notation) <CAUTION> Indent
35	○	UNQ	0	Unique information setup method for sorting	0: Space 1: patient ID number <CAUTION> Indent
36	○	PCD	1	Clock during DMS-I/F output	0: 1 μsec 1: 2 μsec
37	○	PCL	0	Clock during LP-I/F output	0: 1 μsec(<60m) 1: 2 μsec(>60m)
38	○	CIM	0	Inch/metric code selection for 14" x 14" and 14" x 17" sizes in DSM output	0: INCH 1: METRIC <CAUTION> DMS output code selection when "inch" and "metric" physical sizes differ
39	○	EBK	0	Selection of a menu to transmit EDR backup information to the IP address that is set with EBA	0: OFF (not transmitted) 1: MENU (menu selected with EM is selected) 2: Full (all menus)

TR7H4004.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
40	○	EBA	. . .	Transfer destination IP address for the transmission of EDR backup data through a network The transmission port is fixed at CPU90E.	Its setup value should always be described in fifteen digits stuffed to the left. If the number of digits is less than 15, space should be added to the end to meet the 15-digit requirement. XXX.XXX.△△△.△△△ (△: Space)
41	○	EM1	Space	Menu code for executing backup when EBK = 1	<CAUTION> Its setup value should always be described in four (hexadecimal) digits.
41	○	EM2	Space	Menu code for executing backup when EBK = 1	<CAUTION> Its setup value should always be described in four (hexadecimal) digits.
41	○	EM3	Space	Menu code for executing backup when EBK = 1	<CAUTION> Its setup value should always be described in four (hexadecimal) digits.
41	○	EM4	Space	Menu code for executing backup when EBK = 1	<CAUTION> Its setup value should always be described in four (hexadecimal) digits.
41	○	EM5	Space	Menu code for executing backup when EBK = 1	<CAUTION> Its setup value should always be described in four (hexadecimal) digits.
42	○	U_LP	1	OEM printer setting	0: OFF 1: ON <CAUTION> Change unnecessary.
43		ID_AP	2	Image reversal mode (orientation) setting range	0: L-R reversal 1: T-B reversal 2: L-R,T-B reversal 3: L-R reversal/90-deg.Rotation 4: L-R,T-B reversal/90-deg.Rotation
44	○	ID_DST	0	Distribution code setting	0: DISABLE 1: ENABLE
45	○	UID_STI	3	Setting of study instance UID type	0: <org root>.2.0.<Private Image UID'> (IDT Type) 0: <org root>.2.0.<MAC Address>. <Time Stamp>.<Unique ID> (CSL TYPE) 1: <org root>.2.1.<Accession Number'> 2: <org root>.2.2.<Study Date + Modarity(CR)>.<Accession Number'> 3: <org root>.2.3.<Study Date + Modarity(CR)>.<Patient ID'> 4: <org root>.2.4.<Study Date> .<Patient ID'2>.<Requesting Service'> <REFERENCE> Setting used to issue study information for QA-DICOM output. Used to customize, on a hospital-by-hospital basis, how to bind images per study on the QA side

TR7H4005.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
46	○	DEF_DENSITY	0	Default setting of image processing density	0: Standard Density 1: High Quality Density <CAUTION> Used to designate the machine's default processing density. This setting is effective only when a setting other than 0 or 1 is registered from IDT3 or the like (in cases where IDT3, which cannot designate the processing density, is connected via IDT4, or where the processing density is not designated due to a software bug of IDT4). Normally, the value that is set on the IDT side or by the internal menu of the CSL type is effective, so its initial value need not be changed.
47	○	JSTFY	00100000 00001111 abcdefgh ijklmnop	Definition of right or left justification for long format	<Variable part> 0: Left justified; 1: Right justified <Corresponding to each digit of the variable part> a: Patient ID, b: Patient name c: Exposure menu name, d: Examination number e: Department name (alphanumeric) f-l: Reserved (default: left justified) m-p: Reserved (default: right justified) <REFERENCES> • Enter a 16-digit variable that is effective when "40. LTC" of PRINT is set to "1. YES". • Common to the DMS output, CRT display, and FILM output.
48	○	HQ_FUNC	1	HQ function setting	0: disabled; 1: enabled <CAUTION> Change unnecessary.
49	○	DRC_FUNC	1	DRC function setting	0: disabled; 1: enabled <CAUTION> Change unnecessary.
50		ID_INFO_TYPE	0	ID# input type for CSL type	0: Stand. 1: Long <CAUTIONS> • If the ID# input or ID online type C is used, it should be set to "1. LONG". • If the ID online type C is not used, it should not be set to "1. LONG". • If the long type format for ID online is used, the HOST side must support the information type C.
51		ID_CODE_SET	0	Acceptable character set during ID online for CSL type	0: CP850 (IBM-specified character code) 1: ISO8859-1 (ISO-specified character code)
52		SSS	0	Screen saver selection	1: Black screen (Screen saver disabled) 2: Pictures (Multiple pictures are displayed at regular intervals.)

TR7H4006.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
53		DST_PADDING	2	Distribution code padding setting	0: Pad with space to the head (EX." 1234") 1: Pad with zero to the head (EX."00001234") 2: Pad with space to the tail (EX."1234 ") 3: Pad with zero to the tail (EX."12340000")
54		ENV	CR-IR347	Machine model name display	
55		ID_RET	0	Patient information acquisition setting during ID online	0: When the cassette is set or when the menu selection key is pressed, the patient ID is automatically cleared and patient information is obtained from the online destination. 1: When the patient ID needs to be changed, the patient ID is cleared and patient information is obtained from the online destination.
56		UID	0	Study/Series information numbering setting	<CSL type> 0: Study/Series information is not numbered on the reader side. <CSL type> 1: Study/Series information is numbered on the reader side. <IDT type> 0: Study/Series information is not numbered on the IDT side. <IDT type> 1: Study/Series information is numbered on the IDT side.
57		EXAM	0	Examination Number Field Setting	0: Examination Number 1: Reception Number
58		L2430	0	24x30cm pantomo logical reading setting	0: Pantomo size (15x30cm) reading disabled 1: Pantomo size (15x30cm) reading enabled
59	○	ID_EXAM	0	CSL type examination number display setting	0: Examination number display/input disabled 1: Examination number display/input enabled
60	○	ID_DEPT	0	CSL type department name display setting	0: Department name display/input disabled 1: Department name display/input enabled
61	○	DEPT_LENGTH	8	CSL type department name input character count setting	1-8: ID_INFO_TYPE=0 1-64: ID_INFO_TYPE=1
62	○	MES_LENGTH	1	Communication message string length setting during ID online of CSL type	0: Maximum length of 128 bytes for send/receive message characters 1: Maximum length of 256 bytes for send/receive message characters
63	○	SCS	0	Character code of special symbols with UK/US language setting (FNT=1) (Only for Base on DICOM setting)	0: ISO-IR 6 (ISO646) 1: ISO-IR 100 (ISO8859-1)
64	○	PN_CS	0	Setting for converting patient name components from FINP to DICOM	0: Not converted 1: Converted

TR7H4012.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
65	○	PN_FDS	0	Setting of delimiter for patient name components in FINP (patient name in languages other than Japanese)	0: Space " " 1: Caret "^" 2: Comma ", "
66	○	PN_FDM	0	Setting of delimiter for patient name components in FINP (patient name in Japanese language)	0: Space " " 1: Caret "^" 2: Comma ", "
67	○	PN_FCS1	"F"	Setting of patient name components (for one component in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
68	○	PN_FCS2	"FG"	Setting of patient name components (for two components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
69	○	PN_FCS3	"FGM"	Setting of patient name components (for three components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
70	○	PN_FCS4	"FGMP"	Setting of patient name components (for four components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
71	○	PN_FCS5	"FGMPS"	Setting of patient name components (for five components in FIN)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
72	○	PN_FCM1	"F"	Setting of multi-byte patient name components (for one component in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
73	○	PN_FCM2	"FG"	Setting of multi-byte patient name components (for two components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
74	○	PN_FCM3	"FGM"	Setting of multi-byte patient name components (for three components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
75	○	PN_FCM4	"FGMP"	Setting of multi-byte patient name components (for four components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
76	○	PN_FCM5	"FGMPS"	Setting of multi-byte patient name components (for five components in FINP)	F: Family name G: Given name M: Middle name P: Prefix S: Suffix

TR7H4017.EPS

Item number	IDT type	Item	Initial value	Setup description	Parameters/Remarks
77	○	PN_DD	1	Setting of delimiter for patient name components in DICOM	0: Space " " 1: Caret "^" 2: Comma ", "
78	○	PN_DC	"FGMPS"	Setting of patient name components in DICOM	F: Family name G: Given name M: Middle name P: Prefix S: Suffix
79		MON	1	Monitor display mode setting	0: Type 1 (old type: LUT = linear) 1: Type 2 (new type: LUT = nonlinear; change in standardized image display mode)
80		LIM810	0	Designation of film size supported by the printer	0: any (either 14"x17", B4, or 8"x10") 1: Only 8"x10"
81		FLMW	1	Setting to determine whether to display a window that requests the user to replace the film tray, when DRY PIX is used	0: No (output instruction is reserved without displaying a window) 1: Yes (window displayed)

TR7H4018.EPS

● “64. PN_CS” through “78. PN_DC” (software version A02 or later)

The following settings are made regarding the patient name information for the image that is subject to DICOM output (Base on DICOM) to QA-WS or CR-IR348CL.

- Definition of components of the name (Family name, Given name, Middle name, Prefix, Suffix).
- Delimiter between components

<DICOM output with FINP input intact>

- PN_CS=0

Name components and delimiters are not converted.

Settings for PN_FDS/PN_FDM/.../PN_DC are ignored.

<Separated by delimiter when DICOM output is generated>

- PN_CS=1

Name components and delimiters are converted.

Settings for PN_FDS/PN_FDM/.../PN_DC are effective. Cases where the setting for each of the items is at its initial value are described below.

- PN_FDS=0

Space is handled as a delimiter.

- PN_FDM=0

Full-width space is handled as a delimiter for a patient name in Kanji.

- PN_FCS1=“F”

- PN_FCS2=“FG”

- PN_FCS3=“FGM”

- PN_FCS4=“FGMP”

- PN_FCS5=“FGMPS”

PN_FCS1 through PN_FCS5 set components of a name (single-byte). If PN_FCS1 through PN_FCS5 are set as described above, they are defined as follows.

PN_FCS1: If there is only one component, it is interpreted as Family name. Assume that the patient name is “Fuji Taro”. Then, if only “Fuji” is entered, “Fuji” is interpreted as Family name.

PN_FCS2: If there are two components, they are interpreted as Family name and Given name. Assume that the patient name is “Fuji Taro”. Then, if “Fuji Taro” is entered, “Fuji” is interpreted as Family name and “Taro” as Given name (when the delimiter is a half-width space).

PN_FCS3: Assume that the patient name is “Rev. John M Smith Ph. D.”. Then, if “Smith John M” is entered, “Smith” is interpreted as Family name, “John” as Given name, and “M” as Middle name (when the delimiter is a half-width space).

PN_FCS4: If there are four components, they are interpreted as Family name, Given name, Middle name, and Prefix. Assume that the patient name is "Rev. John M Smith Ph. D.". Then, if "Smith John M Rev. Ph. D." is entered, "Smith" is interpreted as Family name, "John" as Given name, "M" as Middle name, and "Rev." as Prefix (when the delimiter is a half-width space).

PN_FCS5: If there are five components, they are interpreted as Family name, Given name, Middle name, Prefix, and Suffix. Assume that the patient name is "Rev. John M Smith Ph. D.". Then, if "Smith John M Rev. Ph. D." is entered, "Smith" is interpreted as Family name, "John" as Given name, "M" as Middle name, "Rev." as Prefix, and "Ph. D." as Suffix (when the delimiter is a half-width space).

- PN_FCM1="F"
- PN_FCM2="FG"
- PN_FCM3="FGM"
- PN_FCM4="FGMP"
- PN_FCM5="FGMPS"

PN_FCM1 through PN_FCM5 set components of a name (double-byte). If PN_FCM1 through PN_FCM5 are set as described above, they are defined as follows.

PN_FCM1: If there is only one component, it is interpreted as Family name.

PN_FCM2: If there are two components, they are interpreted as Family name and Given name.

PN_FCM3: If there are three components, they are interpreted as Family name, Given name, and Middle name.

PN_FCM4: If there are four components, they are interpreted as Family name, Given name, Middle name, and Prefix.

PN_FCM5: If there are five components, they are interpreted as Family name, Given name, Middle name, Prefix, and Suffix.

- PN_DD=1 [change prohibited]

It defines the delimiter for the patient name when DICOM output is generated.

- PN_DC="FGMPS" [change prohibited]

It defines the arrangement of the components of the patient name when DICOM output is generated.

[2-2] PRINT (FILMFMT.CFG)

It defines setup information regarding film output formats.

■ List of PRINT Setup Items (FILMFMT.CFG)

Item number	Item	Initial value	Setup description	Parameters/Remarks
1	BF	1	IP barcode display switching	0: NO 1: YES
2	EF	1	EDR mode display switching	0: NO 1: YES
3	IF	1	Image condition display switching	0: NO 1: YES
4	CF	1	Correction item display switching	0: NO 1: YES
5	ET	1	Exposure time display switching	0: NO 1: YES
6	HN	FUJI FILM HOSPITAL	Institution name	60Char <REFERENCE> Institution name that is displayed when "2. FNT" of SYSTEM is set to other than "0".
7	HP	9578 8E6D 8374 8343 838B 8380 9561 8940 8140 8140 8140 8140 8140 8140 8140	Institution name in Kanji	S-JIS 30 Bytes (up to 15 Kanji characters) <REFERENCES> • Institution name that is displayed when "2. FNT" of SYSTEM is set to "0". • When an institution name in Kanji is to be entered, the Shift JIS code should be delimited by space every four digits. Note, however, that if space code (8140) of Shift JIS is entered for 15 characters in "7. HP", then the institution name that is set in "6. HN" is displayed.
8	GF	1	Set processing information display switching	0: NO 1: YES
9	GJ	0	X-ray technologist ID display switching	0: NO 1: YES <CAUTION> Indent
10	MF	1	Menu character string display switching	0: NO 1: YES
11	A1	7	Upper-limit age in years for age display in months	0–99
12	A2	0	Upper-limit age in months for age display in days	0–12
13	TH	0	Trimming amount (mammo) The trimming amount (mammo) for four sides of the IP image in HR is set.	0–25(mm)
14	TE	0	Trimming amount (other than mammo) The numeral value for trimming of four sides of the IP image in ST is set.	0–25(mm)

TR7H4007.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
15	CL	2	Date display type	0: JAPANESE (H10.04.01) 1: ANSI LONG (1998.APR.01) 2: ANSI SHORT (1998.04.01) 3: AMERICAN LONG (APR.01.1998) 4: AMERICAN SHORT (04.01.1998) 5: EUROPEAN LONG (01.APR.1998) 6: EUROPEAN SHORT (01.04.1998)
16	AB	0	Age/birth date display switching	0: AGE 1: Date of Birth
17	FR1	0	14"x17" (35cm x 43cm)/14"x14" (35cm x 35 cm)/18*43, 8"x10" single image frame display	0: NO 1: YES
18	FR2	0	18*43 LR/2-in-1 image frame display	0: NO 1: YES
19	FR4	0	14"x17" (35cm x 43cm)/1843/8*10 4-in-1 image frame display	0: NO 1: YES
20	CR	0	Compression ratio display switching	0: NO 1: YES <REFERENCE> Used to determine whether the compression ratio for the image for reoutput is display.
21	MM	0	Margin designation switching	0: image information dependent (default = transparent margin) 1: image information dependent (default = black margin) 2: fixed to transparent margin 3: fixed to black margin <REFERENCE> It specifies whether to make transparent or black the margin of the output film image.
22	SG	0	14" x 17" (35cm x 43cm) LP 100% magnification mode	0: NO 1: YES (Magnify)
23	HG	0	14" x 17" (35cm x 43cm) film 14" x 17" (35cm x 43cm) single character size	0: Standard 1: Large
24	OS	0	DR compression enabled/disabled for reoutput	0: Depending on Image Information 1: Cannot be used. <REFERENCE> It selects whether the enabling or disabling the DR compression during image reoutput is dependent either on image information or on system setting.
25	RF	2	Left/right character display reversal	0: Not displayed 1: Reversed version of letter "R" is displayed when reversed. 2: Either "AP" or "PA" is displayed on the exposure unit/modality.
26	CE	0	Display selection for film character area 0 and/or 1	0: Both displayed 1: Only area 0 displayed 2: Only area 1 displayed 3: Not displayed ☞ For more detail, see "● Explanation about output location/indication location for area 0 and area 1" <REFERENCE> With the 5000MA (CR-IR347), this setup is applicable when an 18-x-24 image is outputted in 100% magnification to B4 film in 2-on-1 format.

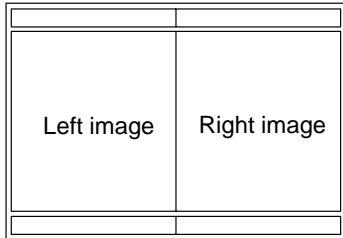
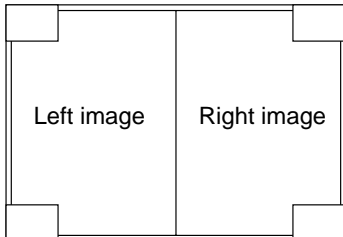
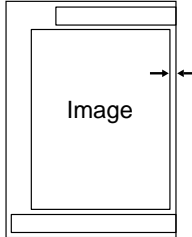
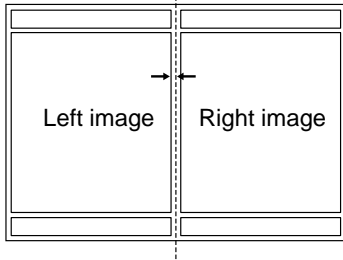
TR7H4008.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
27	CSX0	500	Horizontal size for standard size area 0	2 - 500 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
28	CSY0	268	Vertical size for standard size area 0	2 - 268 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
29	CSX1	458	Horizontal size for standard size area 1	2 - 458 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
30	CSY1	174	Vertical size for standard size area 1	2 - 174 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
31	CLX0	980	Horizontal size for large size area 0	2 - 980 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
32	CLY0	268	Vertical size for large size area 0	2 - 268 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
33	CLX1	668	Horizontal size for large size area 1	2 - 668 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
34	CLY1	180	Vertical size for large size area 1	2 - 180 (0.1mm) ☞ For more detail, see “● Explanation about output location/indication location for area 0 and area 1”
35	FD 1417	0010	Position rotation designation for 14" x 17" (35 x 43cm) areas 0 and 1.	The area position rotation is specified by four digits.
35	FD 1714	1131	Position rotation designation for landscape 14" x 17" (35 x 43cm) areas 0 and 1.	The area position rotation is specified by four digits.
35	FD 1843	0010	Position rotation designation for 1843 areas 0 and 1.	The area position rotation is specified by four digits.
35	FD 0810	0010	Position rotation designation for 8" x 10" (18 x 24cm) areas 0 and 1.	The area position rotation is specified by four digits.
35	FD 1008	1131	Position rotation designation for landscape 8"x10" areas 0 and 1	Four digits are used for area position rotation designation.
35	FD 1414	0010	Specify positional rotation for area 0/area 1 of 14x14 size	The area position rotation is specified by four digits.
35	FD 1824A	0020	Position rotation designation for 18 x 24 cm (left-hand image) areas 0 and 1	The area position rotation is specified by four digits.
35	FD 1824B	1030	Position rotation designation for 18 x 24 cm (right-hand image) areas 0 and 1	The area position rotation is specified by four digits.

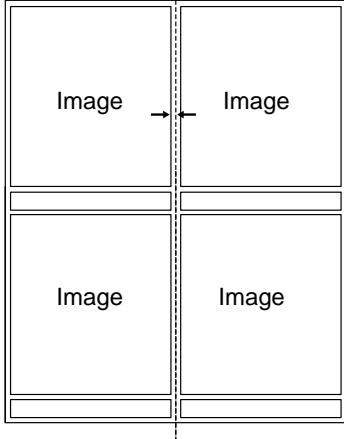
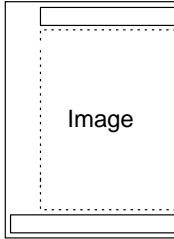

TR7H4009.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
36	FC1	XXXX: 1234 2345 3456 4567 5678 6789 7890 8901	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
36	FC2	XXXX: 1234 2345 3456 4567 5678 6789 7890 8901	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
36	FC3	XXXX: 1234 2345 3456 4567 5678 6789 7890 8901	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
36	FC4	XXXX: 1234 2345 3456 4567 5678 6789 7890 8901	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
36	FC5	0020:0317	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
36	FC6	1030:???	Position rotation designation for specific MPM code (8 max.) areas.	Area position rotation designation: MPM1 MPM2 . . . MPM8
37	EM	2	Energy subtraction parameter/ PEM parameter output.	0: NO 1: YES (Ene.-Sub.) 2: YES (PEM)
38	IN	0	Examination number display in ID card	0: film char 2 1: examination number <CAUTION> Care should be exercised when changing this setup.
39	IM	0	FCR9000-compatible format support setting for 14"x14" 100% magnification/pantomo	0: NO (FCR9000 compatible) 1: YES
40	LTC	0	Use of long type format	0: Not used 1: Used <REFERENCES> · The long type format is intended to extend the number of characters outputted to the HI-C655QA, film, and CR-IR347 panel. To use this function, set the IDT-IV (A07/B07 or later) or CR-IR348CL to the long character output. · Right or left justification of characters complies with the designation of "47. JSTFY" of SYSTEM.
41	FRSC	????: XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	With-frame/without- graduation film format output setting	Up to 8 digits of MPM code film setting For no image frame display for FR1/FR2/FR4, it is handled as no image frame/no graduation. (Example 1) FRSC="0000 0200 XXXX XXXX XXXX XXXX XXXX XXXX" → Film output with frame/without graduation only for MPM codes of 0000 and 0200. (Example 2) FRSC="???? XXXX XXXX XXXX XXXX XXXX XXXX XXXX" → Film output with frame/without graduation for all MPM codes. (Example 3) FRSC="020? XXXX XXXX XXXX XXXX XXXX XXXX XXXX" → Film output with frame/without graduation only for MPM codes of 0200 through 020F.

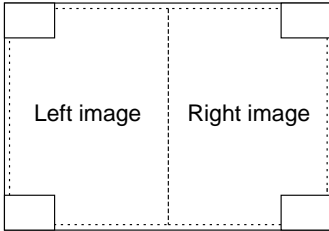
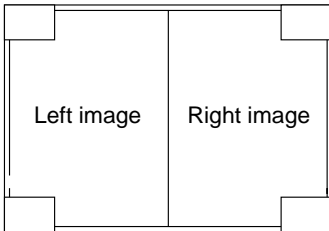
TR7H4011.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
42	MBF	1	18x24cm 2-on-1 mammo format image scaling factor setting	<p>0: 86%/1: 100% <Format for 0:86%></p>  <p><Format for 1:100%></p> 
43	MFG1	0	Single mammo format image interval setting	<p>0-50 (0.1 mm)</p> 
44	MFG2	0	2-on-1 mammo format image interval setting	<p>0-50 (0.1 mm)</p> 

TR7H4013.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
45	MFG4	0	4-on-1 mammo format image interval setting	<p>0-50 (0.1 mm)</p> 
46	MFR1	1	Single mammo format image frame setting	<p>0: Without image frame/1: With image frame <0: Without image frame></p>  <p><1: With image frame></p> 

TR7H4014.EPS

Item number	Item	Initial value	Setup description	Parameters/Remarks
47	MFR2	1	2-on-1 mammo format image frame setting	<p>0: Without image frame/1: With image frame <0: Without image frame></p>  <p><1: With image frame></p> 

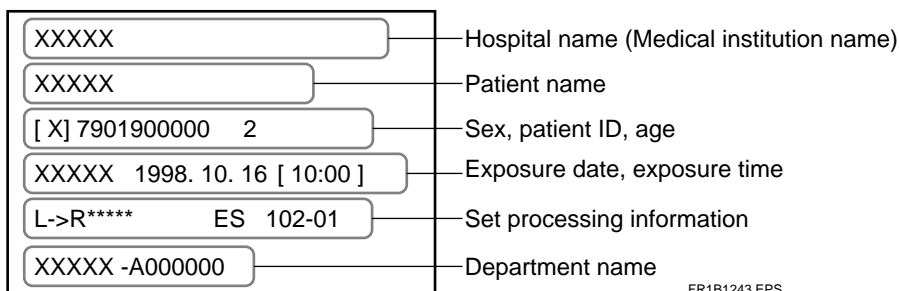
TR7H4015.EPS

● Area indication (two types)

< Area 0 >

The hospital name, patient name, sex, patient ID, age or birth date, exposure date, exposure time, set processing information, and department name are indicated.

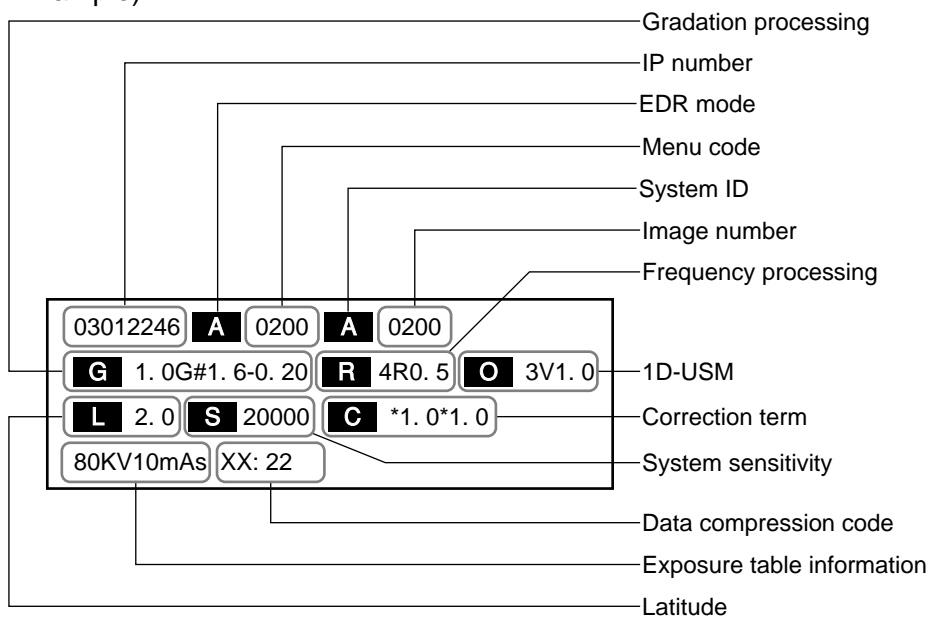
Example)



<Area 1>

The IP number, EDR mode/menu code, system ID/image number, image condition, normalization condition, correction item, engineer code, exposure bed information, and compression code are indicated.

Example)



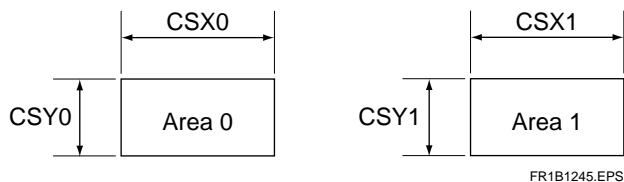
- Explanation about output location/indication location for area 0 and area 1

< Selection of area indication >

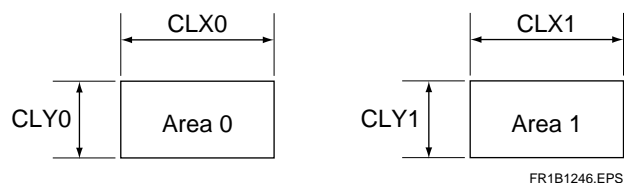
With item 26. CE, indication of either area 0 or area 1 is selected.

<Designation of area size>

For the standard size, it is designated with 27. CSX0, 28. CSY0, 29. CSX1, and 30. CSY1.

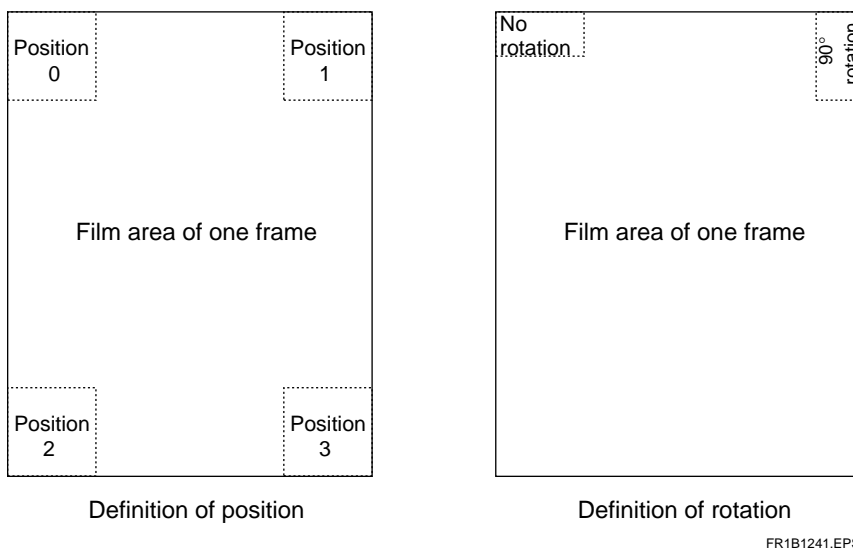


For the large size, it is designated with 31. CLX0, 32. CLY0, 33. CLX1, and 34. CLY1.



<Definition of area position and rotation>

The definition of area position and rotation is as follows.



With items "36. FC1" through "36. FC4" of Film Setup, four types of area displays may be set. For each of the types, up to eight MPM codes may be set.

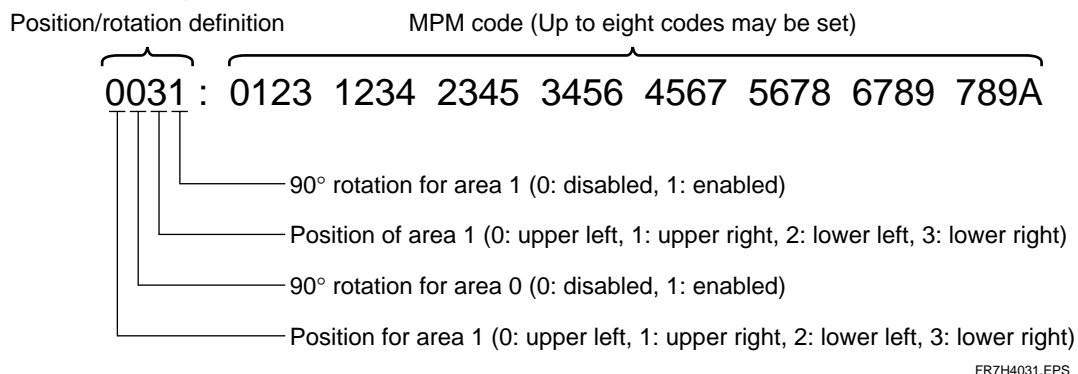
For image data with MPM code that is not set, the setting of "35. FD1417" is used (for 14"x17").

◇ REFERENCE ◇

A wildcard "?" may be used for one letter of a MPM code that may be set with items FC1 through FC4. "?" denotes any letter, from 0 to F.

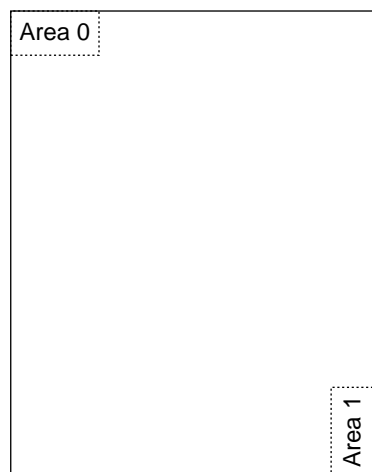
Example) "123?" → Represents a MPM code, from 1230 to 123F.

<How to set up>



Setup example)

FC1=0031:0123 1234 2345 3456 4567 5678 6789 789A



Area 0 = position (0), rotation disabled (0)
 Area 1 = position (3), 90° rotation enabled (1)

FR7H4032.EPS

[2-3] REMOTE SWITCH (RMT_SW.CFG)

It sets remote switch ON/OFF of the intelligent hub*. Because it is an “indent” item, it may not be typically set.

* Intelligent hub: a hub that complies with SNMP (Simple Network Management Protocol).



CAUTION

It may not be usually set because it is an “Indent” item.

■ Format

● IP address (IP address)

IP address that is set in the HOSTS file.

 “[2-7] HOSTS ADDRESS (HOSTS)”

● “Parameter”

- When ON “NOPK △ 1000”
- When OFF “NOPK △ 0000”

“△” denotes a space.

■ Setup Example

REMOTE SWITCH is set to ON.

An example of description (bold faced) for the above setup is presented below.

```
#
#RMT_SW.CFG
#

[ ON]
#172.16.0.128,root,"NOPK 1000"

[ OFF]
#172.16.0.128,root,"NOPK 0000"

172.16.0.128,root,"NOPK 1000"
```

FR7H4062.EPS

[2-4] EQUIPMENT (EQUIP)

It sets to determine which HOST is requested to process filing function, display function, print function, and ID information acquisition function.

■ Format

Function \triangle HostName (\triangle HostName...

● Function (function)

Function requested for the host that is set in "HostName (host name)".

- "OD_FILE" Filing function
- "DISPLAY" Display function
- "PRINT" Print function
- "IDT" ID information acquisition function

● HostName (host name)

It can set up the host that is responsible for the function specified by "Function (function)".

If multiple hosts are set as "IDT", the host that is first set is used preferentially.

The next host will be used when its immediately preceding host experiences failure or any other trouble.

If multiple units are connected as "PRINT", "OD_FILE", and "DISPLAY", the output destination may be specified by user setting.

With the CR-IR347, the number of hosts that may be set for one function is restricted as follows.

- IDT Up to five IDTs
- PRINT One LOCAL and one host name; or up to two host names
- Other Up to two

It should be noted that the setup for HostName (host name) is as follows.

- LOCAL

A host connected over an E-I/F or serial line. It is designated when direct connection is to be established.

- LOCAL_S

A host connected over an E-I/F or serial line. It is designated when direct connection is to be established. Note, however, that high-resolution data transfer is not supported.

- LOCAL_R

A printer connected over an E-I/F. It is designated when print output is to be provided only during reoutput, without generating printout during reading. Even when the film output count is set to 1 or greater, no printout is provided during reading.

- Host name that is set in the HOSTS file

A network-connected host. It is designated when network connection is to be established.

☞ "[2-7] HOST ADDRESS (HOSTS)"

■ Setup Example

OD_FILE Network-connected to odf624.

DISPLAY Network-connected to hic655.

PRINT LOCAL connection and network-connected to fn-ps551.

IDT Network-connected to fcridt4-1 and fcridt4-2.

An example of description (bold faced) for the above setup is presented below.

```
#
# EQUIP
#
# Function Host Name [Host Name] ...
# Function = OD_FILE or DISPLAY or PRINT or IDT
OD_FILE odf624
DISPLAY hic655
PRINT  LOCAL fn-ps551
IDT  fcridt4-1 fcridt4-2
```

FR7H4065.EPS

■ Precaution When Used as CR-IR347P System

The CR-IR347P is only connectable to the CR-IR348CL, so that only "DISPLAY" and "IDT" may be described as function names in the configuration.

A setup example is presented below.

```
#
# EQUIP
#
# Function Host Name [Host Name] ...
# Function = OD_FILE or DISPLAY or PRINT or IDT
IDT  iip-1 iip-2
DISPLAY iip-1
```

FR7H4529.EPS

[2-5] LOCAL INTERFACE (INTERFACE)

It defines the setup information for communication requirements over serial line connection.



CAUTION

No change is necessary because the initial value is used as is.

[2-6] NETWORK HOST INTERFACE (DEVICE)

It may define functions, communication protocols, and transfer rates of each host. The host must be a device that is connected to a network.

■ Format

HostName: Attr|Attr,[Protocol ID],[System code],[Speed],[Density Type]

● HostName (host name)

- Host name that is set in the HOSTS file.

 "[2-7] HOSTS ADDRESS (HOSTS)"

● Attr (attribute)

One of the following should be designated. Multiple attributes can be designated by delimiting them by "I".

- PRINT Film output enabled
- HD_FILE Active file enabled
- DISPLAY Display function
- OD_FILE Archive file enabled

● Protocol ID (protocol identification number)

It is set in four hexadecimal digits. It may be omitted by entering ",". When it is omitted, it is set to "0100 (FINP)".

- 0001 DMSP
- 0100 FINP (Fuji integrated network protocol)
- 0110 (FINP)
- 0200 Base on DICOM

If it is necessary to use the image processing exclusive selection flag, the protocol identification number needs to be set to either "0100", "0110", or "0200".

● System code (system type code)

It is set in two hexadecimal digits. It may be omitted by entering ",".

● Speed (transfer speed)

It is set in decimal notation. It may be omitted by entering ",". When it is omitted, it is set to "8".

● Density type

The output density for each output destination unit is set.

1: 10pix/mm (Max Pixel Spacing : 100)

2: 20pix/mm (Max Pixel Spacing : 050)

■ Setup Example

● hic654 setup content

Attributes of "display function (DISPLAY)" and "active file enabled (HD_FILE)" are set. The protocol is set to FINP, with the system code and transfer speed omitted.

● odf624 setup content

An attribute of "archive file enabled (OD_FILE)" is set. The protocol is set to FINP, with the system code and transfer speed omitted.

● fn-ps551 setup content

Attributes of "film output enabled (PRINT)" are set. The protocol is set to FINP, with the system code and transfer speed omitted.

An example of description (bold faced) for the above setup is presented below.

```
#
# DEVICE
#
# Host Name:Attr|Attr,[ Protocol ID] ,[ System code] ,[ Speed]
# ,[ Density Type]
# Attr          = PRINT or HD_FILE or DISPLAY or OD_FILE
# Protocol ID = 0100 (FINP) or 0110 (FINP) or 0200 (DICOM)
# System code = Hex 2 figures
# Speed        = Dec [ Kbytes/sec] (default 8Kbytes/sec)
# Density Type = Output Image Density(Default 1)
#   1.Standard Density or High Quality Density
#   (Max Pixel Spacing:100)
#   2.Standard Density or High Quality Density
#   (Max Pixel Spacing:050)
hic655:DISPLAY|HD_FILE,0100,,,
odf624:OD_FILE,0100,,,
fn-ps551:PRINT,0100,,,
```

FR7H4067.EPS

■ Precaution When Used as CR-IR347P System

The CR-IR347P is only connectable to the CR-IR348CL, so that only “HD-FILE” and “DISPLAY” may be described as attribute names in the configuration.

A setup example is presented below.

```
#
# DEVICE
#
# Host Name:Attr|Attr,[ Protocol ID] ,[ System code] ,[ Speed]
# ,[ Density Type]
# Attr          = PRINT or HD_FILE or DISPLAY or OD_FILE
# Protocol ID = 0100 (FINP) or 0110 (FINP) or 0200 (DICOM)
# System code = Hex 2 figures
# Speed        = Dec [ Kbytes/sec] (default 8Kbytes/sec)
# Density Type = Output Image Density(Default 1)
#      1.Standard Density or High Quality Density
#      (Max Pixel Spacing:100)
#      2.Standard Density or High Quality Density
#      (Max Pixel Spacing:050)
iip:DISPLAY|HD_FILE,0200,,,
```

FR7H4630.EPS

[2-7] HOSTS ADDRESS (HOSTS)

For all the hosts connected over the same network, their IP addresses should be set. One host should be defined per line. Up to 127 hosts can be defined.

■ Format

IP Addr △ HostName

● IP Addr (IP address)

An IP address is set in the form of “xxx.xxx.xxx.xxx”, using numerals ranging from 0 to 255. “xxx” denotes 0 through 255.

◆ NOTES ◆

- To one CR-IR347 machine, be sure to assign both a standard LAN IP address (CPU90E) and a LAN board IP address (CPU90F).
Example) 172.16.0.1 fcr5000a ... CR-IR347#1 (CPU90E)
 172.16.0.2 fcr5000a-1 ... CR-IR347#1 (CPU90F)
 - Be sure to match the standard LAN IP address (CPU90E) and LAN board IP address (CPU90F) to the IP addresses set in item No. 3 “IPS” and item No. 4 “IPI” of SYSTEM: IRSET.CFG, respectively.
-

● Host Name (host name)

A host name is set within 10 characters, using lowercase alphabets (a through z), numerals (0 through 9), and hyphen (-).

◆ NOTES ◆

- If any alphabet is used in a host name, be sure to use lowercase letters.
- The initial letter of a host name should always be a lowercase alphabet.

■ Setup Example

CR-IR347 2 units
 IDT-IV 2 units
 HI-C 1 unit
 OD-F 1 unit
 FN-PS551 1 unit

An example of description (bold faced) for the above setup is presented below.

```
#
# HOSTS
#
# Host Name = Max 10 characters
# (Available Character: 'a'-'z' '0'-'9' '-' [ 37chars] )
# IP Addr            Host Name
172.16.0.1            fcr5000a
172.16.0.2            fcr5000a-1
172.16.0.11           fcr5000b
172.16.0.12           fcr5000b-1
172.16.0.21           fcridt4-1
172.16.0.22           fcridt4-2
172.16.0.101          hic654
172.16.0.102          odf624
172.16.0.103          fn-ps551
```

FR7H4069.EPS

■ Precaution When Used as CR-IR347P System

The CR-IR347P is only connectable to the CR-IR348CL, so that the host name (IP address) that may be described in the configuration is only for itself and the CR-IR348CL.

A setup example is presented below.

```
#
# HOSTS
#
# Host Name = Max 10 characters
# (Available Character: 'a'-'z' '0'-'9' '-' [ 37chars] )
# IP Addr            Host Name
172.16.0.1            fcr5000
172.16.0.2            fcr5000-n
172.16.1.20           iip
```

FR7H4531.EPS

[2-8] DISTRIBUTION (CODEDSTB)

It sets the distribution destination for network connection. One distribution code should be defined per line. Up to 128 lines of distribution code can be defined.

■ Format

Code △ HostName (△ HostName...)

● Code (distribution destination code)

A distribution destination code is set in eight alphanumeric characters or "?". "?" denotes a match with any one character.

● Host Name (host name)

The host name that is set in the HOSTS file should be set. Up to four host names can be set by delimiting them with a space.

☞ "[2-7] HOSTS ADDRESS (HOSTS)"

■ Setup Example

The distribution code is set.

For "HI-C AA0123??"

An example of description (bold faced) for the above setup is presented below.

```
#
# Codedstb
#
# Code Host Name [ HostName] ...
AA0123?? hic654
```

FR7H4071.EPS

■ Precaution When Used as CR-IR347P System

When connected as the CR-IR347P to the CR-IR348CL, DISTRIBUTION is used in a different manner than with the CR-IR347 system (setting of distribution for network connection).

With the CR-IR347P, DISTRIBUTION is set only if multiple CR-IR348CL units are connected to the CR-IR347P.

☞ "Appendix 4 Procedures for Connecting with CR Console (CR-IR348CL)" in "Installation volume"

[2-9] ROUTING (ROUTE)

It sets the information about the router address in the network and about the network connection, when a router is used for connection to another network.

■ Format

(Dst-Addr | Dst-Network-Addr) △ (Router-Name | Router-Addr) , , , ,

“△” denotes a space.

- **Dst-Addr | Dst-Network-Addr (destination IP address or destination network IP address)**

Either the destination IP address or the destination network IP address is set.

- **Router-Name | Router-Addr (router name or router IP address)**

Either the “Host Name” of the router or the IP address of the router is set.

[2-10] NETMASKS (NETMASKS)

It sets the network number and subnet mask when connection is established with another network.

The subnet mask indicate a range the network number portion represents in the IP address ("xxx.xxx.xxx.xxx" where "xxx" denotes 0 to 255).

■ Format

Network \triangle netmask

● Network (network number)

It sets a network number of the network to which the CR-IR347 is connected.

● netmask (subnet mask)

It specifies a range the network number portion represents in the IP address.

It is set in the form of "xxx.xxx.xxx.xxx" (where "xxx" denotes a decimal numeral ranging from 0 to 255), and the bit of the portion handled as the network number is set to "1", while the bit of the portion handled as the host number is set to "0".

It is classified into the following network classes according to the range of the network number portion.

Class A	255.0.0.0
Class B	255.255.0.0
Class C	255.255.255.0

The narrower the range of the network number portion, the greater portion may be handled as the host number (in reverse alphabetical order of C, B, and A). Thus, more host addresses (IP addresses) may be assigned within the same network (that is, a larger network may be implemented).

◆ NOTE ◆

If the networks for the CPU90E and CPU90F are the same, the same net mask should be set for both. If the CPU90F is not available, the net mask for the CPU90F is left on its default, regardless of its setting value.

■ Setup Example

Network **172.16.0.0**
netmask **255.255.0.0**

An example of description (bold faced) for the above setup is presented below.

```
#
# Network masks database
#
# only non-default subnet masks need to be defined here
#
# Network netmask
172.16.0.0        255.255.0.0
```

FR7H4072.EPS

[2-11] DICOM (Base on DICOM)

It sets "Base on DICOM" between the CR-IR347 and the transfer destination QA-WS or CR-IR348CL.

■ Format

HostName,ServiceName:AENAME,[PortNo.],[SOPTType],[CompType],[Timeout1],
[Timeout2],[Density Type]

- HostName
Enter the host name that is defined by HOSTS or DEVICE.
- ServiceName
Set "STORAGE_U" for the local machine and "STORAGE_P" for the QA-WS.
- AENAME
Set the DICOM standard Application Entity name (consisting of up to 16 ASCII characters).
- PortNo.
Set the TCP port number that the Base-on-DICOM application uses. This entry is meaningless for the transmitting end. The default setting is "104".
- SOPTType (SOP Class Type definition)
Although two options are selectable (1: FINP; 2: OEM), choose "1".
- CompType (image data compression definition)
Although two options are selectable (0: no compression; 1: JPEG compression), choose "1".
- Timeout1
Set the timeout time (in seconds) for the TCP socket connect/recv command.
- Timeout2
Set the timeout time (in seconds) for one-image transfer.
- Density Type (output destination)
Specify the output density for the output destination.
1: 10pix/mm (Max Pixel Spacing: 100)
2: 20pix/mm (Max Pixel Spacing: 050)

[3] TEST MODE

[3-1] ROUTINE

◆ NOTE◆

To perform routine processing after "[3-2] AUTO MODE" was selected, be sure to perform this setting. If the routine processing is executed without this setting, an operation error may result.

- (1) The settings made in "[3-2] AUTO MODE" are canceled and the machine is rendered into a state appropriate for routine processing.

THE NORMAL MODE FOR ROUTINE PROCESSING IS SET.

FR7H4313.EPS

[3-2] AUTO MODE

With the settings of the operation mode and the number of conveyance, when the IP cassette is put into the cassette set unit in the routine processing mode, IPs are automatically conveyed a set number of times.

[3-2-1] READING & ERASURE

- (1) Execute "1. READING & ERASURE".

INPUT THE NUMBER OF CONVEYANCES.
0 - 99999 : XXXXX

FR7H4311.EPS

XXXXX: Number of conveyances within a range from 0 to 99999.

- (2) When the number of conveyances is entered, the conveyance mode is set.

**THE SPECIAL MODE FOR AUTOMATIC READING & ERASURE
CONVEYANCE IS SET.**

FR7H4315.EPS

- (3) Select "0. QUIT" repeatedly to return to the routine processing screen.

- (4) When an IP cassette is loaded into the cassette set unit, the operation starts.

- (5) Once the operation is completed, set "[3-1] ROUTINE".

THE NORMAL MODE FOR ROUTINE PROCESSING IS SET.

FR7H4317.EPS

[3-2-2] PRIMARY ERASURE

The image is read to detect the dosage on the IP, and IP erasure is performed according to the dosage.

The image so read is not outputted because the objective of this mode is to detect the amount of erasure for the IP.

This mode is used when it is not necessary to test the image reading function but the image on the IP used for conveyance is to be erased.

- (1) Execute "2. PRIMARY ERASURE".

INPUT THE NUMBER OF CONVEYANCES.
0 - 99999 : XXXXX

FR7H4314.EPS

XXXXX: Number of conveyances within a range from 0 to 99999.

- (2) When the number of conveyances is entered, the conveyance mode is set.

**THE SPECIAL MODE FOR AUTOMATIC READING & ERASURE
CONVEYANCE IS SET.**

FR7H4315.EPS

- (3) Select "0. QUIT" repeatedly to return to the routine processing screen.

- (4) When an IP cassette is loaded into the cassette set unit, the operation starts.

- (5) Once the operation is completed, set "[3-1] ROUTINE".

THE NORMAL MODE FOR ROUTINE PROCESSING IS SET.

FR7H4316.EPS

[3-2-3] SECONDARY ERASURE

The IP is conveyed through the reading unit without reading the image, and its erasure is performed quickly regardless of the dosage on the IP.

This mode is used to merely check the mechanism of the IP conveyance function.

- (1) Execute "3. SECONDARY ERASURE".

INPUT THE NUMBER OF CONVEYANCES.
0 - 99999 : XXXXX

FR7H4318.EPS

XXXXX: Number of conveyances within a range from 0 to 99999.

- (2) When the number of conveyances is entered, the conveyance mode is set.

THE SPECIAL MODE FOR AUTOMATIC PASSIVE ERASURE
CONVEYANCE IS SET.

FR7H4319.EPS

- (3) Select "0. QUIT" repeatedly to return to the routine processing screen.

- (4) When an IP cassette is loaded into the cassette set unit, the operation starts.

- (5) Once the operation is completed, set "[3-1] ROUTINE".

THE NORMAL MODE FOR ROUTINE PROCESSING IS SET.

FR7H4320.EPS

BLANK PAGE

[4] ELECTRICAL UTILITY

[4-1] ERASURE LAMP TEST

This mode is used to test the erasure lamps, and ends with their test result displayed.

- (1) Execute "1. ERASURE LAMP TEST".

ERASURE LAMP TEST IS IN PROGRESS.

FR7H4321.EPS

- (2) The result is displayed.

RESULT
LAMP1 : XXXXX
LAMP2 : XXXXX
LAMP3 : XXXXX
LAMP4 : XXXXX
LAMP5 : XXXXX

FR7H4322.EPS

<When normal>

XXXXX: OK

<When in error>

XXXXX: ERROR

[4-2] IMAGE MEMORY TEST

This mode is used to test the image memory that is a shared portion of the memory, and ends with its test result displayed.

- (1) Execute "2. IMAGE MEMORY TEST".

IMAGE MEMORY TEST IS IN PROGRESS.

FR7H4323.EPS

- (2) The result is displayed.

<When normal>

RESULT - OK.

FR7H4324.EPS

<When in error>

RESULT - ERROR (XXXXXX,YYYYYY) .

FR7H4325.EPS

XXXXXX: X coordinate (hexadecimal) of the shared memory where an error occurred

YYYYYY: Y coordinate (hexadecimal) of the shared memory where an error occurred

[4-3] DSP TEST

This mode is used to test each of the image processing boards, and ends with their test result displayed.

- (1) Execute "3. DSP TEST".

DSP TEST IS IN PROGRESS.

FR7H4326.EPS

- (2) The result is displayed.

RESULT
 /dsp/lp1-xxxxxxxxxxxx
 /dsp/lp2-xxxxxxxxxxxx
 /dsp/hy1-xxxxxxxxxxxx
 /dsp/hy2-xxxxxxxxxxxx
 /dsp/hy3-xxxxxxxxxxxx
 /dsp/hy4-xxxxxxxxxxxx
 /dsp/pm1-xxxxxxxxxxxx
 /dsp/pm2-xxxxxxxxxxxx
 /dsp/pm3-xxxxxxxxxxxx
 /dsp/dms-xxxxxxxxxxxx
 /dsp/scn-xxxxxxxxxxxx
 /dsp/hcp-xxxxxxxxxxxx
 /dsp/bs1-xxxxxxxxxxxx
 /dsp/bs2-xxxxxxxxxxxx

FR7H4327.EPS

- lp1, lp2 : IMG08M board
- hy1, hy2, hy3, hy4 : IMG08H board
- pm1, pm2, pm3 : IMG08H board
- dms : None
- scn : IMG07B board
- hcp : HCP08A board
- bs1, bs2 : BSP08A board

<When normal>

XXXXXXXXXXXX: OK

<When in error>

XXXXXXXXXXXX: ERROR (YYYYYY)

YYYYYY: DSP internal detail code (if it is not available, "_____" is displayed.

<When the board is not available>

XXXXXXXXXXXX: NO EXISTENCE

[4-4] LAN

It displays the result of LAN test and address confirmation.

[4-4-1] ETHERNET MAC ADDRESS

For the CPU90E and CPU90F boards, their Ethernet MAC addresses are displayed. If the CPU90F board is not installed, only the MAC address of the CPU90E is displayed.

(1) Execute "1. ETHERNET MAC ADDRESS".

```
CPU90E ethernet address = XX:XX:XX:XX:XX:XX
CPU90F ethernet address = XX:XX:XX:XX:XX:XX
```

FR7H4328.EPS

XX:XX:XX:XX:XX:XX: Ethernet MAC address

(2) The result is displayed.

[4-4-2] PING

It executes communication tests between the destination host and the LAN (CPU90E/ CPU90F board) of the CR-IR347.

(1) Execute "2. PING".

```
INPUT THE CONNECTED HOST-NAME OR IP ADDRESS :
```

FR7H4329.EPS

(2) Enter the host name or IP address of the destination.

Example) CPU90E board IP address (IPS): 172.16.0.1

```
INPUT THE CONNECTED HOST-NAME OR IP ADDRESS :
172.16.0.1
```

FR7H4330.EPS

(3) Select the board.

```
SELECT BOARD.
1.CPU90E 2.CPU90F :
```

FR7H4331.EPS

(4) Execute "1. CPU90E".

```
PING TEST IS IN PROGRESS.
```

FR7H4332.EPS

<When normal>

```
RESULT - OK.
```

FR7H4333.EPS

<When in error>

```
RESULT - ERROR.
```

FR7H4334.EPS

<When the CPU90F board is not available>

```
CPU90F BOARD HAS NOT MOUNTED.
```

FR7H4335.EPS

[4-4-3] CPU90F DMA

This menu should not be used.

[4-5] HDD

It performs HDD tests.

[4-5-1] WRITE-READ VERIFY

It performs a HDD write/read test.

(1) Execute "1. WRITE-READ VERIFY".

HDD WRITE-READ VERIFY TEST IS IN PROGRESS.

FR7H4342.EPS

<When normal>

RESULT - OK.

FR7H4343.EPS

<When in error>

RESULT - ERROR.

FR7H4344.EPS

<When error occurred during HDD device initialization>

FILE I/O ERROR. (FILE = XXXXXXXXXXXX,errno = YYYYYYYY) .

FR7H4345.EPS

XXXXXXXXXXXX : File name
 YYYYYYYY : Detail code

[4-6] FDD

It performs FDD tests.

[4-6-1] WRITE-READ VERIFY

It performs a FDD write/read test.

(1) Execute "1. WRITE-READ VERIFY".

HDD WRITE-READ VERIFY TEST IS IN PROGRESS.

FR7H4346.EPS

<When normal>

RESULT - OK.

FR7H4347.EPS

<When in error>

RESULT - ERROR.

FR7H4348.EPS

<When error occurred during FDD device initialization>

FILE I/O ERROR. (FILE = XXXXXXXXXXXX,errno = YYYYYYYY) .

FR7H4349.EPS

XXXXXXXXXXXX : File name
YYYYYYYY : Detail code

[5] SCANNER UTILITY

[5-1] INITIALIZE

Initial setting is performed for the main-scan system parts.

(1) Execute "1. INITIALIZE".

<When normal>

SCANNER INITIALIZATION IS IN PROGRESS.
RESULT - OK.

FR7H4104.EPS

<When in error>

SCANNER INITIALIZATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4105.EPS

[5-2] POLYGON

The polygon is individually turned ON (rotate) or OFF (stop).

◆ NOTES ◆

Be sure to turn ON the polygon when this mode is quitted.

[5-2-1] OFF

The polygon is turned OFF (stop rotation).

(1) Execute "1. OFF".

THE POLYGON IS TURNED OFF.

FR7H4350.EPS

[5-2-2] ON

The polygon is turned ON (rotate).

(1) Execute "2. ON".

THE POLYGON IS TURNED ON.

FR7H4351.EPS

[5-3] LASER

The laser is individually turned ON (rotate) or OFF (stop).

**CAUTION**

Never turn OFF the polygon while the laser is ON.

If the polygon is turned OFF, the laser is irradiated onto a single spot, which may result in machine trouble or fire.

◆ NOTES ◆

Be sure to turn ON the laser when this mode is quitted.

[5-3-1] OFF

The laser is turned OFF.

(1) Execute "1. OFF".

THE LASER IS TURNED OFF.

FR7H4352.EPS

[5-3-2] ON

The laser is turned ON.

(1) Execute "2. ON".

<When normal>

RESULT - OK.

FR7H4353.EPS

<When the laser power is insufficient>

RESULT - LASER POWER INSUFFICIENT.

FR7H4354.EPS

<When the laser power is in error>

RESULT - LASER POWER ERROR.

FR7H4355.EPS

[5-4] HV

It turns ON or OFF the high-voltage switch (software switch) individually for checking purposes.

[5-4-1] OFF

The high-voltage switch (software switch) is turned OFF.

(1) Execute "1. OFF".

THE HV IS TURNED OFF.

FR7H4356.EPS

[5-4-2] ON

The high-voltage switch (software switch) is turned ON.

(1) Execute "1. ON".

<When normal>

RESULT - OK.

FR7H4357.EPS

<When the high-voltage power supply is in error>

RESULT - HV ERROR.

FR7H4358.EPS

<When the analog power supply is in error>

ANALOG POWER SUPPLY ERROR.

FR7H4359.EPS

<When the SCN08D board high-voltage switch (S1) is in the OFF position>

HV OFF.

FR7H4360.EPS

[5-5] HV DATA

It sets the high-voltage applied to the photomultiplier individually for either the front surface or the back surface

[5-5-1] FRONT

The high-voltage applied to the photomultiplier for the front surface is set.

(1) Execute "1. FRONT".

INPUT HV VALUE.
250 - 1000 :

FR7H4361.EPS

(2) Enter the HV value within a range from 250 to 1000.

If any out of range value is entered, the system returns to the setup screen.

SETTING INPUTTED HV VALUE IS IN PROGRESS.

FR7H4362.EPS

<When normal>

RESULT - OK.

FR7H4363.EPS

<When the high-voltage power supply is in error>

RESULT - HV ERROR.

FR7H4364.EPS

<When the analog power supply is in error>

ANALOG POWER SUPPLY ERROR.

FR7H4365.EPS

<When the SCN08D board high-voltage switch (S1) is in the OFF position>

HV OFF.

FR7H4366.EPS

[5-5-2] BACK

The high-voltage applied to the photomultiplier for the back surface is set.

- (1) Execute "1. BACK".

INPUT HV VALUE.
250 - 1000 :

FR7H4367.EPS

- (2) Enter the HV value within a range from 250 to 1000.

If any out of range value is entered, the system returns to the setup screen.

SETTING INPUTTED HV VALUE IS IN PROGRESS.

FR7H4368.EPS

<When normal>

RESULT - OK.

FR7H4369.EPS

<When the high-voltage power supply is in error>

RESULT - HV ERROR.

FR7H4370.EPS

<When the high-voltage power supply is in error>

ANALOG POWER SUPPLY ERROR.

FR7H4371.EPS

<When the SCN08D board high-voltage switch (S1) is in the OFF position>

HV OFF.

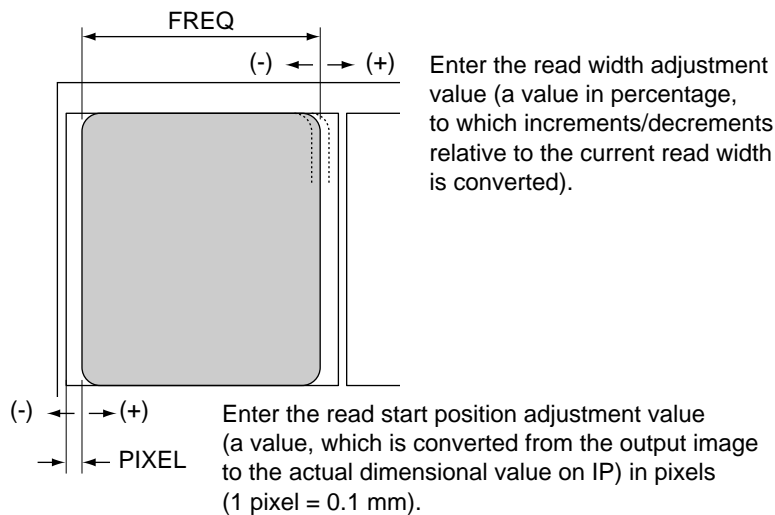
FR7H4372.EPS

[5-6] FORMAT

It sets the IP read start position (PIXEL) and the read width (FREQ).

◆ NOTES ◆

- For this setting, because the setup value in the hard disk is not overwritten, the data so obtained is lost upon resetting.
- Writing the setup values to the hard disk is done in "[5-8-3] SAVE FORMAT DATA".



FR1H2000.EPS

[5-6-1] DEFAULT

The IP read start position (PIXEL) and/or read width (FREQ) are set to their default.

■ 1. PIXEL AND FREQ

Both the IP read start position and read width (FREQ) are set to their default.

- (1) Execute "1. PIXEL AND FREQ".

FORMAT DATA IS SET TO THE DEFAULT VALUE.

FR7H4373.EPS

■ 2. PIXEL ONLY

Only the IP read start position (PIXEL) is set to its default.

- (1) Execute "2. PIXEL ONLY".

FORMAT DATA IS SET TO THE DEFAULT VALUE.

FR7H4374.EPS

■ 3. FREQ ONLY

Only the IP read width (FREQ) is set to its default.

- (1) Execute "3. FREQ ONLY".

FORMAT DATA IS SET TO THE DEFAULT VALUE.

FR7H4374.EPS

[5-6-2] FREQ ADJUST

The IP read width (FREQ) is adjusted.

◆ NOTE ◆

Its setup value is not written to the hard disk.

- (1) Execute "2. FREQ ADJUST".

INPUT MAIN SCAN LENGTH ADJUSTMENT VALUE.
-5.00 - +5.00 :

FR7H4376.EPS

- (2) Enter the IP read width adjustment value (increment/decrement) over a range from - 5.00 to 5.00 (in %).

Example) To increment the IP read width on the output film from 172 mm to 175 mm:

$$(175 - 172)/172 \times 100 = 1.74$$

Thus, enter "1.74".

<When normal>

RESULT - OK.

FR7H4377.EPS

<When in error>

RESULT - ERROR.

FR7H4378.EPS

[5-6-3] PIXEL ADJUST

The IP read start position (PIXEL) is adjusted.

◆ NOTE ◆

Its setup value is not written to the hard disk.

(1) Select "3. PIXEL ADJUST".

INPUT INVALID PIXELS.
-999 - 999 :

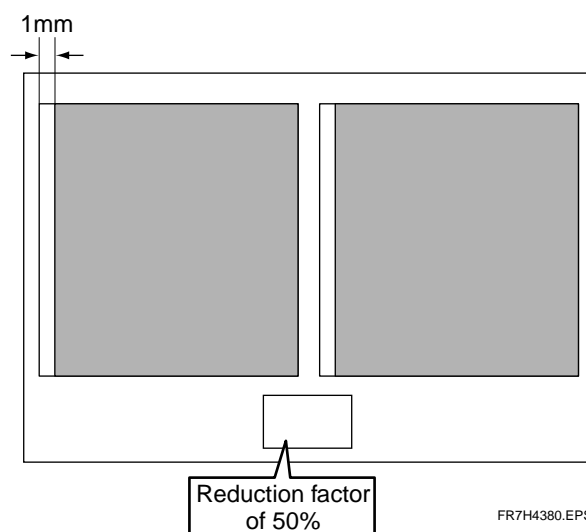
FR7H4379.EPS

(2) Enter the number of pixels shifted for the read start position over a range from -999 to 999 (in pixels).

◇ REFERENCES ◇

- Ten pixels correspond to 1 mm in actual measurement on the IP.
- To shift rightward on the output image, enter a positive value, and to shift leftward, enter a negative value.

Example) When shifting the IP read start position on the two-in-one image of 14"x17" size leftward by 1 mm (actual measurement), enter "-20".



FR7H4380.EPS

Formula: Actual measurement of shifting on film DDD
(reduction factor DDD 100) x 10 pixels = number of pixels shifted
Calculation example: 1 mm DDD (50 DDD 100) x 10 pixels = 20

<When normal>

RESULT - OK.

FR7H4381.EPS

<When in error>

RESULT - ERROR.

FR7H4382.EPS

[5-7] SHADING/SENSITIVITY

The shading and sensitivity correction data is recorded, calculated, and set.

◆ NOTES ◆

- For this setting, because the setup value in the hard disk is not overwritten, the data so obtained is lost upon resetting.
- Writing the setup values to the hard disk is done in "[5-8-1] SAVE SHADING AND POLYGON DATA".

[5-7-1] REC MODE

The shading, polygon, and sensitivity correction data is made recordable.

◆ NOTE ◆

REC MODE is effective for a single reading. Thus, to repeat it, execute REC MODE repeatedly.

■ 1. ST

The shading/polygon/sensitivity correction data is made recordable on the IP of ST type.

(1) Execute "1. ST".

THE SPECIAL MODE TO RECORD ADJUSTMENT DATA IS SET.

FR7H4383.EPS

■ 2. HR

The shading/polygon/sensitivity correction data is made recordable on the IP of HR type.

(1) Execute "2. HR".

THE SPECIAL MODE TO RECORD ADJUSTMENT DATA IS SET.

FR7H4384.EPS

[5-7-2] CALCULATION

The shading/polygon/sensitivity correction data is calculated.

[5-7-2-1] ST

The shading/polygon/sensitivity correction data is calculated for the IP of ST type.

■ 1. SHADING, POLYGON AND SENSITIVITY

The shading, polygon, and sensitivity correction data is calculated.

(1) Execute "1. SHADING, POLYGON AND SENSITIVITY".

<When normal>

INPUT DOSAGE VALUE.
0.50 - 9.99 :

FR7H4385.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4386.EPS

(2) Enter the dosage value (in mR).

<When normal>

CALCULATION IS IN PROGRESS.
RESULT - OK.

FR7H4387.EPS

<When in error>

CALCULATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4388.EPS

■ 2. SHADING, POLYGON AND SENSITIVITY FOR BAD CONDITION



CAUTION

This function will not be used in the marketplace.

■ 3. SHADING AND POLYGON

The shading/polygon data is calculated.

(1) Execute "3. SHADING AND POLYGON".

<When normal>

CALCULATION IS IN PROGRESS.
RESULT - OK.

FR7H4393.EPS

<When in error>

CALCULATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4394.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4395.EPS

■ 4. SHADING AND POLYGON FOR BAD CONDITION



CAUTION

This function will not be used in the marketplace.

■ 5. POLYGON ONLY

Only the polygon data is calculated.

(1) Execute "5. POLYGON ONLY".

<When normal>

**CALCULATION IS IN PROGRESS.
RESULT - OK.**

FR7H4393.EPS

<When in error>

**CALCULATION IS IN PROGRESS.
RESULT - ERROR.**

FR7H4394.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4395.EPS

■ 6. SENSITIVITY ONLY

Only the shading data is calculated.

(1) Execute "6. SENSITIVITY ONLY".

<When normal>

**INPUT DOSAGE VALUE.
0.50 - 9.99 :**

FR7H4389.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4390.EPS

(2) Enter the dosage value (in mR).

<When normal>

**CALCULATION IS IN PROGRESS.
RESULT - OK.**

FR7H4391.EPS

<When in error>

**CALCULATION IS IN PROGRESS.
RESULT - ERROR.**

FR7H4392.EPS

[5-7-2-2] HR

The shading/polygon/sensitivity correction data is calculated for the IP of HR type.

■ 1. SHADING, POLYGON AND SENSITIVITY

The shading, polygon, and sensitivity correction data is calculated.

(1) Execute "1. SHADING, POLYGON AND SENSITIVITY".

<When normal>

INPUT DOSAGE VALUE .
0.50 - 9.99 :

FR7H4385.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4386.EPS

(2) Enter the dosage value (in mR).

<When normal>

CALCULATION IS IN PROGRESS .
RESULT - OK.

FR7H4387.EPS

<When in error>

CALCULATION IS IN PROGRESS .
RESULT - ERROR.

FR7H4388.EPS

■ 2. SHADING, POLYGON AND SENSITIVITY FOR BAD CONDITION



CAUTION

This function will not be used in the marketplace.

■ 3. SHADING AND POLYGON

The shading/polygon data is calculated.

(1) Execute "3. SHADING AND POLYGON".

<When normal>

CALCULATION IS IN PROGRESS.
RESULT - OK.

FR7H4393.EPS

<When in error>

CALCULATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4394.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4395.EPS

■ 4. SHADING AND POLYGON FOR BAD CONDITION



CAUTION

This function will not be used in the marketplace.

■ 5. POLYGON ONLY

Only the polygon data is calculated.

(1) Execute "5. POLYGON ONLY".

<When normal>

CALCULATION IS IN PROGRESS.
RESULT - OK.

FR7H4393.EPS

<When in error>

CALCULATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4394.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4395.EPS

■ 6. SENSITIVITY ONLY

Only the shading data is calculated.

(1) Execute "6. SENSITIVITY ONLY".

<When normal>

INPUT DOSAGE VALUE.
0.50 - 9.99 :

FR7H4389.EPS

<When the recorded data is incorrect>

THE DATA IS RECORDED WITH INCORRECT SIZE.

FR7H4390.EPS

(2) Enter the dosage value (in mR).

<When normal>

CALCULATION IS IN PROGRESS.
RESULT - OK.

FR7H4391.EPS

<When in error>

CALCULATION IS IN PROGRESS.
RESULT - ERROR.

FR7H4392.EPS

[5-7-2-3] HR (FOR MANUFACTURING)



CAUTION

Because this function is intended for the manufacturing process, it shall not be used in the market.

[5-7-3] SHADING/POLYGON CORRECTION

A shading/polygon correction setup is performed.

■ 1. OFF

A setup is made to disable the corrected shading/polygon in the routine mode.

(1) Execute "1. OFF".

<When normal>

**THE SPECIAL MODE WITHOUT SHADING & POLYGON CORRECTION
IS SET.**

FR7H4427.EPS

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4428.EPS

XXXXXXXXXX: File name

■ 2. ON

A setup is made to enable the corrected shading/polygon in the routine mode.

(1) Execute "2. ON".

<When normal>

THE NORMAL MODE WITH SHADING & POLYGON CORRECTION IS SET.

FR7H4429.EPS

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4430.EPS

XXXXXXXXXX: File name

[5-7-4] SENSITIVITY DATA

The sensitivity value is set.

◇ **REFERENCE** ◇

It is used when the sensitivities for multiple readers are to be uniformed.

■ **1. ST**

The sensitivity value (S value) is set for the IP of ST type.

- (1) Execute "4. SENSITIVITY DATA".

INPUT CURRENT S VALAUE .
1 - 999 :

FR7H4431.EPS

- (2) Enter the current sensitivity value (S value) over a range from 1 to 999.

INPUT EXPECTED S VALUE .
1 - 999 :

FR7H4432.EPS

- (3) Enter the desired sensitivity value (S value) over a range from 1 to 999.

INPUTTED S VALUE IS SET.

FR7H4433.EPS

■ **2. HR**

The sensitivity value (S value) is set for the IP of HR type.

- (1) Execute "4. SENSITIVITY DATA".

INPUT CURRENT S VALAUE .
1 - 999 :

FR7H4431.EPS

- (2) Enter the current sensitivity value (S value) over a range from 1 to 999.

INPUT EXPECTED S VALUE .
1 - 999 :

FR7H4432.EPS

- (3) Enter the desired sensitivity value (S value) over a range from 1 to 999.

INPUTTED S VALUE IS SET.

FR7H4433.EPS

[5-7-5] HV DATA/ [5-7-6] PMT DATA**CAUTION**

Because this function is intended for the manufacturing process, it shall not be used in the market.

[5-8] DATA MANAGEMENT

The setup values for various data are displayed and written to the hard disk.

[5-8-1] SAVE SHADING AND POLYGON DATA

The shading/polygon data is written to the hard disk.

(1) Execute "1. SAVE SHADING AND POLYGON DATA".

<When normal>

XXXXXXXXXX IS SAVED.

FR7H4434.EPS

XXXXXXXXXX: File name

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4435.EPS

XXXXXXXXXX: File name

[5-8-2] SAVE SENSITIVITY DATA

The sensitivity data is written to the hard disk.

(1) Execute "2. SAVE SENSITIVITY DATA".

<When normal>

XXXXXXXXXX IS SAVED.

FR7H4436.EPS

XXXXXXXXXX: File name

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4437.EPS

XXXXXXXXXX: File name

[5-8-3] SAVE FORMAT DATA

The setup values for the IP reading start position (PIXEL) and read width (FREQ) are written to the hard disk.

(1) Execute "3. SAVE FORMAT DATA".

<When normal>

XXXXXXXXXX IS SAVED.

FR7H4438.EPS

XXXXXXXXXX: File name

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4439.EPS

XXXXXXXXXX: File name

[5-8-4] DISPLAY DATA

The format and set sensitivity data is listed up.

(1) Execute "4. DISPLAY DATA".

MP	= XXXX	TMP	= XXXX	TML	= XXXX
RCNT	= XXXX	NCNT	= XXXX	HVCNTOST	= XXXX
HVCNTOHR	= XXXX	HVCNTUHR	= XXXX	HVDATAOST	= XXXX
HVDATAOHR	= XXXX	HVDATAUHR	= XXXX	PMTKO	= XXXX
PMTKU	= XXXX	SAIPOST	= XXXX	SAIPOHR	= XXXX
SAIPUHR	= XXXX	Xe	= XXXX	Z	= XXXX
SMD	= XXXX				

FR7H4440.EPS

XXXX: Decimal digits

MP	: Number of invalid pixels
TMP	: Total number of invalid pixels
TML	: Total number of invalid lines
RCNT	: Reference frequency division value
NCNT	: Oscillation frequency setup value
HVCNTOST	: Center-sensitivity HV value (ST)
HVCNTOHR	: Center-sensitivity HV value (HR/front)
HVCNTUHR	: Center-sensitivity HV value (HR/back)
HVDATAOST	: Reading HV value (ST)
HVDATAOHR	: Reading HV value (HR/front)
HVDATAUHR	: Reading HV value (HR/back)
PMTKO	: PMT sensitivity coefficient (front)
PMTKU	: PMT sensitivity coefficient (back)
SAIPOST	: IP sensitivity during sensitivity adjustment (ST)
SAIPOHR	: IP sensitivity during sensitivity adjustment (HT/front)
SAIPUHR	: IP sensitivity during sensitivity adjustment (HT/back)
Xe	: Erasure level dosage value
Z	: Erasure level QL value
SMD	: Correction mode default value

[5-8-5] LOAD FROM FD

The shading, polygon, and sensitivity data in the floppy disk is loaded into the memory.

■ 1. SHADING/POLYGON

The shading, polygon data in the floppy disk is loaded into the memory.

(1) Execute "1. SHADING/POLYGON".

```
PLEASE SET A FD.
ARE YOU SURE TO LOAD SHADING / POLYGON DATA FILES FROM
THE FD?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4441.EPS

(2) Put the floppy disk into the floppy disk drive and select "1. YES".

<When normal>

```
XXXXXXXXXX IS LOADED.
```

FR7H4442.EPS

XXXXXXXXXX: File name

<When in error>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4443.EPS

XXXXXXXXXX: File name

- SCN_SHDG.SHD • SCN_POLY.POL
- SCN_SHDO.SHD • SCN_SHDU.SHD
- SCN_POLO.POL • SCN_POLU.POL

■ 2. SENSITIVITY

The sensitivity data in the floppy disk is loaded into the memory.

(1) Execute "2. SENSITIVITY".

```
PLEASE SET A FD.
ARE YOU SURE TO LOAD SENSITIVITY DATA FILES FROM THE FD?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4444.EPS

(2) Put the floppy disk into the floppy disk drive and select "1. YES".

<When normal>

```
XXXXXXXXXX IS LOADED.
```

FR7H4445.EPS

XXXXXXXXXX: File name

<When in error>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4446.EPS

XXXXXXXXXX: File name

- SCN_ISEN.DAT

[5-8-6] SAVE TO FD

The shading, polygon, and sensitivity data is written to a floppy disk.

(1) Execute "6. SAVE TO FD".

PLEASE SET A FD.
ARE YOU SURE TO LOAD SHADING / POLYGON DATA FILES FROM
THE FD?
1.YES 2.NO (DEFAULT=2) :

FR7H4447.EPS

(2) Put the floppy disk into the floppy disk drive and select "1. YES".

<When normal>

XXXXXXXXXX IS LOADED.

FR7H4448.EPS

XXXXXXXXXX: File name

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4449.EPS

XXXXXXXXXX: File name

- | | |
|----------------|----------------|
| • SCN_SHDG.SHD | • SCN_POLY.POL |
| • SCN_ISEN.DAT | • SCN_SHDO.SHD |
| • SCN_SHDU.SHD | • SCN_POLO.POL |
| • SCN_POLU.POL | |

[5-9] DIAGNOSTIC

A sequence of self-diagnostic checks related to the scanner are performed.

If an error occurs during execution, the error is displayed and the diagnostics continues.

(1) Execute "9. DIAGNOSTIC".

<When normal>

**SCANNER DIAGNOSTIC IS IN PROGRESS.
RESULT - OK.**

FR7H4138.EPS

If it ends in error, either of the following messages appears.

<For start-point detection failure>

START POINT DETECTION ERROR.

FR7H4140.EPS

<For leading-edge detection failure>

EDGE DETECTION ERROR.

FR7H4141.EPS

<For high-voltage power supply failure>

HV ERROR.

FR7H4142.EPS

<For analog power supply failure>

ANALOG POWER SUPPLY ERROR.

FR7H4143.EPS

<For polygon failure>

POLYGON MIRROR ERROR.

FR7H4144.EPS

<For laser power failure>

LASER POWER ERROR.

FR7H4145.EPS

<For insufficient laser power>

LASER POWER INSUFFICIENT.

FR7H4146.EPS

[5-10] VIRTUAL IMAGE

The virtual image mode whereby the image signal is virtually generated is set.

◇ **REFERENCE** ◇

When an abnormal image occurs, the causes of abnormality can be isolated by inputting the virtual image signal to the setup signal line and outputting the film based on the virtual image.

◆ **NOTES** ◆

- To isolate the causes between the front photomultiplier and rear photomultiplier, setting should be made in "[5-11] BOTH SIDES ADDITIONAL" beforehand.
- Be sure to select "[5-10-4] ROUTINE" after this mode is quitted.

[5-10-1] LIGHT

The LED on the PMT08D/PMR08C board is caused to emit light (blue), and the resulting virtual image from the light-collecting guide assembly is read.

(1) [1] [ENT]

INPUT THE LED'S LUMINESCENCE QUANTITY.
1. EQUIVALENT TO 0.2-0.3 [mR]
2. EQUIVALENT TO 2-3 [mR]
1 - 2 :

FR7H4450.EPS

- 0.2 to 0.3 (mR) or equivalent: 1
- 2 to 3 (mR) or equivalent: 2

(2) [1] [ENT] or [2] [ENT]

THE SPECIAL MODE FOR VIRTUAL IMAGE IS SET.

FR7H4451.EPS

(3) [0] [ENT] [0] [ENT] [0] [ENT]

(4) [QUIT]

(5) Put the cassette in place.

[5-10-2] LOG AMP

A fixed level of current is fed to the PMT08D/PMR08C board, and the resulting virtual image is read.

(1) [2] [ENT]

THE SPECIAL MODE FOR VIRTUAL IMAGE IS SET.

FR7H4452.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

(4) Put the cassette in place.

[5-10-3] SCN08 INPUT

A fixed level of voltage is fed to the SCN08D/SCR08D board, and the resulting virtual image is read.

(1) [3] [ENT]

THE SPECIAL MODE FOR VIRTUAL IMAGE IS SET.

FR7H4453.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

(4) Put the cassette in place.

[5-10-4] ROUTINE

The virtual image mode whereby the image signal is virtually generated is canceled.

(1) [4] [ENT]

THE NORMAL MODE WITHOUT VIRTUAL IMAGE IS SET.

FR7H4454.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

[5-11] BOTH SIDES ADDITIONAL

The IP reading is set to either the front surface, back surface, or both surfaces.

◆ NOTE ◆

The IP reading for the front surface and back surface is effective only once after this mode is set.

[5-11-1] FRONT ONLY

The IP reading for the front surface only is set.

(1) [1] [ENT]

THE SPECIAL MODE TO PUT OUT ONLY FRONT DATA IS SET.

FR7H4455.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

[5-11-2] BACK ONLY

The IP reading for the back surface only is set.

(1) [2] [ENT]

THE SPECIAL MODE TO PUT OUT ONLY BACK DATA IS SET.

FR7H4456.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

[5-11-3] ROUTINE

The IP reading for both surfaces is set.

(1) [3] [ENT]

THE SPECIAL MODE TO PUT OUT ADDITIONAL DATA IS SET.

FR7H4457.EPS

(2) [0] [ENT] [0] [ENT] [0] [ENT]

(3) [QUIT]

[6] MECHANICAL UTILITY

[6-1] INITIALIZE

The motors, actuators, and sensors are initialized.

◆ NOTES ◆

- *This mode is displayed only when the mode is transitioned to the M-Utility during initialization or upon occurrence of a serious error.*
- *To use the MECHANICAL UTILITY during initialization or upon occurrence of a serious error, be sure to execute "1. INITIALIZE" to initialize the motors, actuators, and sensors.*

(1) Execute "1. INITIALIZE"

[6-2] MOTOR

The motors are individually operated.

◆ NOTE ◆

In this mode, MZ1, MZ2, MZ3, and MZ4 cannot be individually operated.

[6-2-1] NUMBER

The numbers of the motors are listed up.

(1) Execute "1. NUMBER".

```
1:ML1 2:ML2          4:MM1 5:MN1
6:MN2 7:MN3          10:MN4
INPUT THE NUMBER OF MOTOR.
1 - 10 :
```

FR7H4152.EPS

[6-2-2] PARAMETER

The motor drive parameter is set.

(1) Select "2. PARAMETER".

```
1:ML1 2:ML2          4:MM1 5:MN1
6:MN2 7:MN3          10:MN4
INPUT THE NUMBER OF MOTOR.
1 - 10 :
```

FR7H4153.EPS

(2) Type in the number of motor over a range from 1 to 10.

```
INPUT THE ROTATION DIRECTION.
1.CW 2.CCW (FIXED=X) :
```

FR7H4154.EPS

x: Rotation direction that is currently set (either "1" or "2")

(3) Type in the rotation direction (either "1" or "2").

```
INPUT THE TOTAL NUMBER OF PULSES.
0 - 8388607 (FIXED=XXXXXXX) :
```

FR7H4155.EPS

xxxxxxx: Total number of pulses that is currently set

(4) Type in the total number of pulses.

INPUT THE HI-SPEED.
16 - 7200 (FIXED=XXXX) :

FR7H4156.EPS

xxxx: High speed that is currently set

(5) Type in the high-speed value.

INPUT THE LOW-SPEED.
16 - 7200 (FIXED=XXXX) :

FR7H4157.EPS

xxxx: Low speed that is currently set

(6) Type in the low-speed value.

INPUT THE SLEW UP TIME.
1000/LOW-SPEED - 3000 (FIXED=XXXX) :

FR7H4158.EPS

xxxx: Slew-up time that is currently set

(7) Type in the slew-up time.

INPUT THE SLEW DOWN TIME.
1000/LOW-SPEED - 3000 (FIXED=XXXX) :

FR7H4159.EPS

xxxx: Slew-down time that is currently set

(8) Type in the slew-down time.

INPUT POWER DOWN DELAY TIME.
0 - 255 (FIXED=XXX) :

FR7H4160.EPS

xxxx: Power-down delay time that is currently set

(9) Type in the power-down delay time.

INPUT THE MAGNETIC PHASE.
1. 2 PHASE 2. 1-2 PHASE
3. W1-2 PHASE 4. 2W1-2 PHASE
1 - 4 (FIXED=X) :

FR7H4161.EPS

x : Value of phase magnetization that is currently set

1 : 2-phase magnetization

2 : 1-2-phase magnetization

3 : W-1-2-phase magnetization

4 : 2W-1-2-phase magnetization

(10) Type in the value of magnetic phase.

```

INPUT THE MOVE AND STOP MODE.
1. HI-POWER/ENERGIZED STOP AFTER DELAY
2. LOW-POWER/ENERGIZED STOP AFTER DELAY
3. HI-POWER/DEENERGIZED STOP AFTER DELAY
4. LOW-POWER/DEENERGIZED STOP AFTER DELAY
5. HI-POWER/ENERGIZED STOP
6. LOW-POWER/ENERGIZED STOP
7. HI-POWER/DEENERGIZED STOP
8. LOW-POWER/DEENERGIZED STOP
1 - 8 (FIXED=X) :

```

FR7H4162.EPS

- x** : Move and stop mode that is currently set
- 1 : High power driving/energized stop, with power-down delay
- 2 : Low power driving/energized stop, with power-down delay
- 3 : High power driving/deenergized stop, with power-down delay
- 4 : Low power driving/deenergized stop, with power-down delay
- 5 : High power driving/energized stop, without power-down delay
- 6 : Low power driving/energized stop, without power-down delay
- 7 : High power driving/deenergized stop, without power-down delay
- 8 : Low power driving/deenergized stop, without power-down delay

(11) Type in the move/stop mode ("1" through "8").

```

INPUT THE STOP MODE.
1. HALT 2. LIMIT
1 - 2 (FIXED=X) :

```

FR7H4163.EPS

- x** : Stop mode that is currently set
- 1 : HALT stop
- 2 : LIMIT stop

[6-2-3] DRIVE

The motor is driven.

(1) Select "3. DRIVE".

```
1:ML1 2:ML2      4:MM1 5:MN1
6:MN2 7:MN3      10:MN4
INPUT THE NUMBER OF MOTOR.
1 - 10 :
```

FR7H4153.EPS

(2) Type in the number of motor.

[6-2-4] STOP

The motor is stopped.

(1) Select "4. STOP".

```
1:ML1 2:ML2      4:MM1 5:MN1
6:MN2 7:MN3      10:MN4
INPUT THE NUMBER OF MOTOR.
1 - 10 :
```

FR7H4153.EPS

(2) Type in the number of motor.

[6-3] ACTUATOR

The actuators, such as solenoids, solenoid valves, pumps, and erasure lamps, are individually operated.

[6-3-1] NUMBER

The numbers of the actuators, such as solenoids, solenoid valves, pumps, and erasure lamps, are listed up.

(1) Execute "1. NUMBER".

1 : SOLK1	5 : PL1
6 : SVL1	9 : LAMP STB 10 : LAMP ON
11 : FFM 12 : MZ4	
INPUT THE NUMBER OF ACTUATOR.	
1 - 12 :	

FR7H4165.EPS

[6-3-2] DRIVE

To Drive Actuator

Example 1) When "11: FFM" is selected

(1) Select "2. DRIVE".

1 : SOLK1	5 : PL1
6 : SVL1	9 : LAMP STB 10 : LAMP ON
11 : FFM 12 : MZ4	
INPUT THE NUMBER OF ACTUATOR.	
1 - 12 :	

FR7H4171.EPS

(2) Type in "11: FFM".

INPUT THE ROTATION DIRECTION.
1. CW 2. CCW (FIXED=X) :

FR7H4172.EPS

"X" denotes the rotation direction (either "1" or "2") that is currently set.

(3) Type in the rotation direction (either "1" or "2").

INPUT THE SPEED.
1. STANDARD SUBSCANNING
2. RAPID SUBSCANNING
3. CARRY OUT
1 - 3 (FIXED=X) :

FR7H4173.EPS

x : The rotation speed that is currently set

1 : Standard subscanning

2 : Fast subscanning

3 : Ejection

(4) Type in the rotation speed.

Example 1) When other than "11: FFM" is selected

(1) Select "2. DRIVE".

1 : SOLK1	5 : PL1
6 : SVL1	9 : LAMP STB 10 : LAMP ON
11 : FFM 12 : MZ4	
INPUT THE NUMBER OF ACTUATOR.	
1 - 12 :	

FR7H4171.EPS

(2) Type in the number of actuator (either 1 through 12).

[6-3-3] STOP

To Stop Actuator

(1) Select "3. STOP".

1 : SOLK1	5 : PL1
6 : SVL1	9 : LAMP STB 10 : LAMP ON
11 : FFM	12 : MZ4
INPUT THE NUMBER OF ACTUATOR.	
1 - 12 :	

FR7H4171.EPS

(2) Type in the number of actuator.

[6-4] SENSOR

The status of the sensor is monitored.

[6-4-1] NUMBER

To Display Sensor No. List

(1) Execute "1. NUMBER".

```

1:SK1    2:SK2    3:SK3

                18:SL1    19:SL2
21:SL4    22:SL5    23:SM1                25:SN1
26:SN2    27:SN3    28:SN4
                33:SZ2    34:SZ3    35:SZ4

INPUT THE NUMBER OF SENSOR.
1 - 35 :
```

FR7H4169.EPS

[6-4-2] MONITOR

To Monitor Individual Sensor

(1) Select "2. MONITOR".

```

1:SK1    2:SK2    3:SK3

                18:SL1    19:SL2
21:SL4    22:SL5    23:SM1                25:SN1
26:SN2    27:SN3    28:SN4
                33:SZ2    34:SZ3    35:SZ4

INPUT THE NUMBER OF SENSOR.
1 - 35 :
```

FR7H4170.EPS

(2) Type in the number of sensor.

◇ When the sensor status changes, the following message appears.

```

XXXXXX ----> Open
XXXXXX ----> Close
```

FR7H4167.EPS

XXXXXX: Sensor name

[6-4-3] MONITOR ALL

To Monitor All Sensors

(1) Select "3. MONITOR ALL".

```
SK1 - 3 : 0 0 0
SL1 - 5 : 1 0 0 0
SM1      : 0
SN1 - 4 : 1 1 0 1
SZ2 - 4 : 1 0 0
0:QUIT
```

FR7H4166.EPS

⇒ When the sensor status changes, the following message appears.

```
XXXXXX ----> Open
XXXXXX ----> Close
```

FR7H4167.EPS

xxxxxx: Sensor name

[6-5] UNIT

Operation tests for the units are performed.

[6-5-1] IP FEED/LOAD UNIT

IP removal operation tests for the IP removal unit are performed.

[6-5-1-1] ARM HOME POSITION

To Locate HP of IP Removal Arm Mechanism

(1) Execute "1. ARM HOME POSITION".

ARM H.P. SETTING IS IN PROGRESS.

FR7H4460.EPS

<When normal>

RESULT - OK.

FR7H4164.EPS

<When in error>

RESULT - ERROR.

FR7H4174.EPS

[6-5-1-2] FEED/LOAD

Feed/load operation for the IP removal arm mechanism is performed.

(1) Execute "2. FEED/LOAD".

INPUT THE MODE.

1. NORMAL MODE

2. STEP MODE

1 - 2 :

FR7H4243.EPS

- | | |
|----------------|--|
| 1. NORMAL MODE | (A series of IP removal operations are performed.) |
| 2. STEP MODE | (The operation is divided into six steps and performed on a step-by-step basis.) |

(2) Enter the operation mode (either "1" or "2") of the IP removal arm.

SET THE CASSETTE TO SHELF1.

FR7H4175.EPS

(3) Set a cassette.

- When “1. NORMAL MODE” is selected

THE FEED/LOAD PROCESS IS IN PROGRESS.

FR7H4176.EPS

- When “2. STEP MODE” is selected

**THE FEED/LOAD PROCESS IS IN PROGRESS.
ARE YOU SURE TO MOVE ON NEXT STEP?**

FR7H4177.EPS

Hit the ENT key to proceed to the next step (there are six steps).

(4) When the operation is completed, pull out the cassette.

<When normal>

RESULT - OK.

FR7H4178.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4179.EPS

xxxxxx: Error code

[6-5-2] UP/DOWN UNIT

This command does not function with the CR-IR347.

[6-5-3] SIDE-POSITIONING GRIP

Grip operation tests for the side-positioning conveyor are performed.

[6-5-3-1] HOME POSITION

The grip home position of the side-positioning conveyor is located.

(1) Execute "1. HOME POSITION".

MOVED TOWARD THE HOME POSITION IS IN PROGRESS.

FR7H4461.EPS

<When normal>

RESULT - OK.

FR7H4180.EPS

<When in error>

RESULT - ERROR.

FR7H4181.EPS

[6-5-3-2] GRIP

The grip operation of the side-positioning conveyor is performed.

(1) Execute "1. GRIP".

MOVED TOWARD THE NIPPING POSITION IS IN PROGRESS.

FR7H4462.EPS

<When normal>

RESULT - OK.

FR7H4182.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4183.EPS

xxxx: Error code

[6-5-3-3] RELEASE

The grip release operation of the side-positioning conveyor is performed.

(1) Execute "3. RELEASE".

MOVED TOWARD THE NON-NIPPING POSITION IS IN PROGRESS.

FR7H4463.EPS

<When normal>

RESULT - OK.

FR7H4184.EPS

<When in error>

RESULT - ERROR.

FR7H4185.EPS

[6-5-4] SIDE-POSITIONING UNIT

Operation tests for the side-positioning mechanism of the side-positioning conveyor are performed.

[6-5-4-1] HOME POSITION

The home position of the side-positioning mechanism is located.

(1) Execute "1. HOME POSITION".

MOVED TOWARD THE HOME POSITION IS IN PROGRESS.

FR7H4464.EPS

<When normal>

RESULT - OK.

FR7H4180.EPS

<When in error>

RESULT - ERROR.

FR7H4181.EPS

[6-5-4-2] ACTUATION

The side-positioning operation is performed.

(1) Select "2. ACTUATION".

RESULT - ERROR.

FR7H4185.EPS

1. **NORMAL** (A series of side-positioning operations are performed.)
2. **STEP** (The operation is divided into four steps and performed on a step-by-step basis.)

(2) Enter the side-positioning operation mode (either "1" or "2").

● When "1. NORMAL" is selected

SIDE-POSITIONING PROCESS IS IN PROGRESS.

FR7H4465.EPS

<When normal>

RESULT - OK.

FR7H4187.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4188.EPS

XXXX: Error code

● When "2. STEP" is selected

**SIDE-POSITIONING PROCESS IS IN PROGRESS.
ARE YOU SURE TO MOVE ON NEXT STEP?**

FR7H4239.EPS

Hit the [ENT] key to proceed to the next step (there are four steps).

<When normal>

RESULT - OK.

FR7H4189.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4190.EPS

XXXX: Error code

[6-5-5] AFTER-READING GRIP

This command does not function with the CR-IR347.

[6-5-6] DRIVING GRIP

Operation tests for the subscanning driving grip mechanism are performed.

[6-5-6-1] GRIP

The driving shaft grip operation is performed.

(1) Execute "1. GRIP".

```
INPUT THE GRIP SPEED.
1. ST
2. HR
1 - 2 :
```

FR7H4246.EPS

1: ST (IP-ST type)

2: HR (IP-HR type)

(2) Type in either "1" or "2".

```
MOVED TOWARD THE NIPPING POSITION IS IN PROGRESS.
DRIVE TIME : XXX
```

FR7H4466.EPS

xxx: Operation time (in 10 msec).

<When normal>

```
RESULT - OK.
```

FR7H4193.EPS

<When in error>

```
RESULT - ERROR (XXXX) .
```

FR7H4194.EPS

xxxx: Error code

[6-5-6-2] RELEASE

The driving shaft grip operation is released.

(1) Execute "2. RELEASE".

INPUT THE RELEASE SPEED.
1. HIGH
2. LOW
1 - 2 :

FR7H4249.EPS

1: HIGH (high-speed release)

2: LOW (low-speed release)

(2) Type in either "1" or "2".

MOVED TOWARD THE NON-NIPPING POSITION IS IN PROGRESS.
DRIVE TIME : XXX

FR7H4467.EPS

xxx: Operation time (in 10 msec)

<When normal>

RESULT - OK.

FR7H4195.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4196.EPS

xxxx: Error code

[6-5-6-3] D/A DATA

The data on the driving shaft grip operation is displayed.

(1) Execute "3. D/A DATA".

DRIVING GRIP		D/A DATA	
		DEFAULT	CURRENT
RELEASE	HIGH	xxxx	xxxx
	LOW	xxxx	xxxx
GRIP	ST	xxxx	xxxx
	HR	xxxx	xxxx

FR7H4197.EPS

xxxx: Data (decimal digits)

BLANK PAGE

[6-5-7] DRIVEN GRIP

Operation tests for the subscanning driven grip mechanism are performed.

[6-5-7-1] GRIP

The driven shaft grip operation is performed.

(1) Execute "1. GRIP".

```
INPUT THE NIPPING SPEED.
1. HIGH
2. LOW
1 - 2 :
```

FR7H4250.EPS

1: HIGH (high-speed release)

2: LOW (low-speed release)

(2) Type in either "1" or "2".

```
MOVED TOWARD THE NIPPING POSITION IS IN PROGRESS.
DRIVE TIME : XXX
```

FR7H4468.EPS

xxx: Operation time (in 10 msec)

<When normal>

```
RESULT - OK.
```

FR7H4193.EPS

<When in error>

```
RESULT - ERROR (XXXX) .
```

FR7H4194.EPS

xxxx: Error code

[6-5-7-2] RELEASE

The driven shaft grip operation is released.

(1) Execute "2. RELEASE".

```

INPUT THE NON-NIPPING SPEED.
1. ST
2. HR
1 - 2 :

```

FR7H4254.EPS

1: ST (IP-ST type)

2: HR (IP-HR type)

(2) Type in either "1" or "2".

```

MOVED TOWARD THE NON-NIPPING POSITION IS IN PROGRESS.
DRIVE TIME : XXX

```

FR7H4469.EPS

xxx: Operation time (in 10 msec).

<When normal>

```

RESULT - OK.

```

FR7H4195.EPS

<When in error>

```

RESULT - ERROR (XXXX) .

```

FR7H4196.EPS

xxxx: Error code

[6-5-7-3] D/A DATA

The data on the driven shaft grip operation is displayed.

(1) Execute "3. D/A DATA".

```

DRIVEN GRIP D/A DATA
          DEFAULT CURRENT
GRIP  ST   xxxx   xxxx
      HR   xxxx   xxxx
RELEASE HIGH xxxx   xxxx
      LOW  xxxx   xxxx

```

FR7H4487.EPS

xxxx: Data (decimal digits)

[6-5-8] MIRROR UP/DOWN

Operation tests for the light-collecting mirror are performed.

[6-5-8-1] UP

The UP operation of the light-collecting mirror is performed.

(1) Execute "1. UP".

MIRROR-UP IS IN PROGRESS.

FR7H4470.EPS

<When normal>

RESULT - OK.

FR7H4471.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4472.EPS

XXXX: Error code

[6-5-8-2] DOWN

The DOWN operation of the light-collecting mirror is performed.

(1) Execute "2. DOWN".

MIRROR-DOWN IS IN PROGRESS.

FR7H4473.EPS

<When normal>

RESULT - OK.

FR7H4474.EPS

<When in error>

RESULT - ERROR (XXXX) .

FR7H4475.EPS

XXXX: Error code

[6-5-9] CLEANING GUIDE

Operation tests for the cleaning guide are performed.

[6-5-9-1] HOME POSITION

The home position of the cleaning guide mechanism is located.

(1) Execute "1. HOME POSITION".

CLEANING GUIDE H.P. DETECTION IS IN PROGRESS.

FR7H4476.EPS

<When normal>

RESULT - OK.

FR7H4477.EPS

<When in error>

RESULT - ERROR.

FR7H4478.EPS

[6-5-9-2] GRIP

The grip operation of the cleaning guide mechanism is performed.

(1) Execute "2. GRIP".

CLEANING GUIDE GRIP OPERATION IS IN PROGRESS.

FR7H4479.EPS

<When normal>

RESULT - OK.

FR7H4480.EPS

<When in error>

RESULT - ERROR.

FR7H4481.EPS

[6-5-9-3] RELEASE

The grip release operation of the cleaning guide mechanism is performed.

(1) Execute "3. RELEASE".

CLEANING GUIDE GRIP OPERATION RELEASE IS IN PROGRESS.

FR7H4482.EPS

<When normal>

RESULT - OK.

FR7H4483.EPS

<When in error>

RESULT - ERROR.

FR7H4484.EPS

[7] FILE UTILITY

[7-1] FORMAT FD

Formatting of a floppy disk (1.44MB MS-DOS formatting) is performed.

◆ NOTES ◆

- Before formatting a floppy disk, make sure that it does not contain any necessary data. Once it is formatted, the data in the floppy disk is completely lost.
- If the floppy disk is "write-protected," it should be "write-enabled" before putting it into the floppy disk drive. Under the "write-protected" condition, the floppy disk cannot be formatted.

(1) Select "1. FORMAT FD".

PLEASE SET A FD. ARE YOU SURE TO FORMAT THE FD ?
1.YES 2.NO (DEFAULT=2) :

FR7H4199.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".
<When normal>

FORMATTING THE FD IS COMPLETED.

FR7H4200.EPS

<When formatting could not be done>

FORMATTING THE FD IS INCOMPLETED.

FR7H4201.EPS

[7-2] FORMAT IMAGE PARTITION

Format image storage partition of hard disk.

(1) Select "2. FORMAT IMAGE PARTITION".

ARE YOU SURE TO FORMAT THE IMAGE PARTITION ?
1.YES 2.NO (DEFAULT=2) :

FR7H4202.EPS

(2) Select "1".
<When normal>

FORMATTING THE IMAGE PARTITION IS COMPLETED.

FR7H4203.EPS

<When formatting could not be done>

FORMATTING THE IMAGE PARTITION IS INCOMPLETED.

FR7H4204.EPS

[7-3] BACKUP

Various setup files are written to a floppy disk.

[7-3-1] SCANNER DATA

The scanner setup files are saved to a floppy disk.

(1) Select "1. SCANNER DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY SCANNER DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4205.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

```
XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.
```

FR7H4206.EPS

XXXXXXXXXX: File name

- | | |
|-----------------|----------------|
| • SCN_ELV.L.DAT | • SCN_IFMT.DAT |
| • SCN_INIT.DAT | • SCN_POLY.POL |
| • SCN_ISEN.DAT | • SCN_POLO.POL |
| • SCN_MAIN.POL | • SCN_SHDO.SHD |
| • SCN_POLU.POL | • SCN_SHDG.SHD |
| • SCN_SHDU.SHD | |

<When the FD is full>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-3-2] CONFIGURATION DATA

The setup files (IRSET.CFG and FILMFMT.CFG) of the CR-IR347 are saved to a floppy disk.

(1) Select "2. CONFIGURATION DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY CONFIGURATION FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4209.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

```
XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.
```

FR7H4206.EPS

XXXXXXXXXX: File name

- | | |
|----------------|----------------|
| • IRSET.CFG | • IRSET.ORG |
| • FILMFMT.CFG | • FILMFMT.ORG |
| • IRSTATUS.CFG | • IRSTATUS.ORG |

<When the FD is full>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-3-3] NETWORK DATA

The network-related setup files (RMT_SW.CFG, EQUIP, DEVICE, HOSTS, CODEDSTB, ROUTE, NETMASKS, and Base on DICOM) are saved to a floppy disk.

(1) Select "3. NETWORK DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY NETWORK DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4210.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

```
XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.
```

FR7H4206.EPS

XXXXXXXXXX: File name

- | | |
|--------------|---------|
| • RMT_SW.CFG | • EQUIP |
| • DEVICE | • HOSTS |
| • CODEDSTB | • ROUTE |
| • NETMASKS | • DICOM |

<When the FD is full>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-3-4] IMAGE PROCESSING DATA

The image processing parameter files are saved to a floppy disk.

(1) Select "4. IMAGE PROCESSING DATA".

PLEASE SET A FD.
ARE YOU SURE TO COPY IMAGE PROCESSING DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :

FR7H4211.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.

FR7H4206.EPS

XXXXXXXXXX: File name

- | | |
|---------------|---------------|
| • HIPMENU.PRM | • HIPUMN.PRM |
| • HIPMNRL.PRM | • HP.PRM |
| • HIPOP.PRM | • HPT.PRM |
| • HIPOPT.PRM | • HPTU.PRM |
| • HIPOPTU.PRM | • HPU.PRM |
| • HIPOPU.PRM | • PEM.PRM |
| • HIPSTD.PRM | • PEMT.PRM |
| • HIPSTDU.PRM | • PEMTU.PRM |
| • PEMU.PRM | • SELECT.PRM |
| • HPTK4.PRM | • SELECTU.PRM |
| • HPTK4U.PRM | • HPG.PRM |
| • HPGU.PRM | |

<When the FD is full>

THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4208.EPS

XXXXXXXXXX: File name

[7-3-5] CSL MENU DATA

The CSL type setup files (menu screen parameters and magnetic card format) are saved to a floppy disk.

(1) Select "5. CSL MENU DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY CSL MENU DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4212.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

```
XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.
```

FR7H4206.EPS

XXXXXXXXXX: File name

- | | |
|----------------|----------------|
| • MPM_DEF.PRM | • FILMMARK.PRM |
| • CDFORM.DAT | • BODYDISP.CFG |
| • MENUDISP.CFG | • RTN_DISP.CFG |
| • ISOCODE.DAT | • SET_MENU.PRM |
| • DRAW_DEF.PRM | |

<When the FD is full>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-3-6] EDR PROCESSING DATA

The EDR parameter files are saved to a floppy disk.

(1) Select "6. EDR PROCESSING DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY EDR PROCESSING DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4213.EPS

(2) Put the floppy disk into the floppy disk drive, and select "1".

```
XXXXXXXXXX IS COPIED.
XXXXXXXXXX IS COPIED.
.
.
.
XXXXXXXXXX IS COPIED.
```

FR7H4206.EPS

XXXXXXXXXX: File name

- IRMUMN.PRM • MPMUMN.PRM
- NNUMN.PRM • EDR.ABS

<When the FD is full>

```
THE FD IS FULL. EXCHANGE OTHER ONE.
1.CONTINUE 2.CANCEL (DEFAULT=2) :
```

FR7H4207.EPS

Replace the floppy disk, and select "1".

<When there is some file that cannot be written to the FD>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-4] RESTORE

Various setup files are loaded from the floppy disk to the hard disk.

◆ NOTE ◆

Before installing the configuration data that was edited on the PC or the like, make sure that the software versions for the machine where the data was extracted and the machine where it is to be installed are the same. If the software versions are different, error may occur during installation.

[7-4-1] SCANNER DATA

The scanner data is loaded from the floppy disk to the hard disk.

(1) Select "1. SCANNER DATA".

PLEASE SET A FD.
ARE YOU SURE TO COPY SCANNER DATA FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :

FR7H4214.EPS

(2) Select "1".

<When normal>

XXXXXXXXXX IS COPIED.

FR7H4215.EPS

XXXXXXXXXX: File name

- | | |
|----------------|----------------|
| • SCN_IFMT.DAT | • SCN_INIT.DAT |
| • SCN_POLY.POL | • SCN_ISEN.DAT |
| • SCN_SHDG.SHD | • SCN_SHDO.SHD |
| • SCN_POLO.POL | • SCN_SHDU.SHD |
| • SCN_POLU.POL | |

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX, errno=YYYYYYYY)

FR7H4526.EPS

XXXXXXXXXX : File name

YYYYYYYY : Detail code

[7-4-2] CONFIGURATION DATA

The setup files (IRSET.CFG and FILMFMT.CFG) of the CR-IR347 are loaded from the floppy disk to the hard disk.

(1) Select "2. CONFIGURATION DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY CONFIGURATION FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4216.EPS

(2) Select "1".

<When normal>

```
XXXXXXXXXX IS COPIED.
```

FR7H4215.EPS

XXXXXXXXXX: File name

- IRSET.CFG • FILMFMT.CFG
- IRSTATUS.CFG

<When in error>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX : File name

[7-4-3] NETWORK DATA

The network-related setup files (RMT_SW.CFG, EQUIP, DEVICE, HOSTS, CODEDSTB, ROUTE, NETMASKS, and Base on DICOM) are loaded from the floppy disk to the hard disk.

(1) Select "3. NETWORK DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY NETWORK DATA FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4217.EPS

(2) Select "1".

<When normal>

```
XXXXXXXXXX IS COPIED.
```

FR7H4215.EPS

XXXXXXXXXX: File name

- | | |
|--------------|---------|
| • RMT_SW.CFG | • EQUIP |
| • DEVICE | • HOSTS |
| • CODEDSTB | • ROUTE |
| • NETMASKS | • DICOM |

<When in error>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX : File name

[7-4-4] IMAGE PROCESSING DATA

The image processing parameter files are loaded from the floppy disk to the hard disk.

(1) Select "4. IMAGE PROCESSING DATA".

PLEASE SET A FD.
ARE YOU SURE TO COPY IMAGE PROCESSING DATA FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :

FR7H4218.EPS

(2) Select "1".

<When normal>

XXXXXXXXXX IS COPIED.

FR7H4215.EPS

XXXXXXXXXX: File name

- | | |
|---------------|---------------|
| • HIPMENU.PRM | • HIPUMN.PRM |
| • HIPMNRL.PRM | • HP.PRM |
| • HIPOP.PRM | • HPT.PRM |
| • HIPOPT.PRM | • HPTU.PRM |
| • HIPOPTU.PRM | • HPU.PRM |
| • HIPOPU.PRM | • PEM.PRM |
| • HIPSTD.PRM | • PEMT.PRM |
| • HIPSTDU.PRM | • PEMTU.PRM |
| • PEMU.PRM | • SELECT.PRM |
| • HPTK4.PRM | • SELECTU.PRM |
| • HPTK4U.PRM | • HPG.PRM |
| • HPGU.PRM | |

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4208.EPS

XXXXXXXXXX: File name

[7-4-5] CSL MENU DATA

The CSL type setup files (menu screen parameters and magnetic card format) are loaded from the floppy disk to the hard disk.

(1) Select "5. CSL MENU DATA".

```
PLEASE SET A FD.
ARE YOU SURE TO COPY CSL MENU DATA FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4219.EPS

(2) Select "1".
<When normal>

```
XXXXXXXXXX IS COPIED.
```

FR7H4215.EPS

XXXXXXXXXX: File name

- | | |
|---------------|----------------|
| • MIM.DEF.PRM | • FILMMARK.PRM |
| • CDFORM.DAT | • BODYDISP.CFG |
| • MENUISP.CFG | • RTN_DISP.CFG |
| • ISOCODE.DAT | |

<When in error>

```
FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-4-6] EDR PROCESSING DATA

The EDR parameter files are loaded from the floppy disk to the hard disk.

(1) Select "6. EDR PROCESSING DATA".

PLEASE SET A FD.
ARE YOU SURE TO COPY EDR PROCESSING DATA FILES TO THE HD ?
1.YES 2.NO (DEFAULT=2) :

FR7H4220.EPS

(2) Select "1".

<When normal>

XXXXXXXXXX IS COPIED.

FR7H4215.EPS

XXXXXXXXXX: File name

- | | |
|--------------|--------------|
| • IRMUMN.PRM | • MPMUMN.PRM |
| • NNUMN.PRM | • EDR.ABS |

<When in error>

FILE I/O ERROR. (FILE=XXXXXXXXXX)

FR7H4208.EPS

XXXXXXXXXX: File name

[7-5] EDR DATA

The EDR calculation values are saved to a floppy disk.

[7-5-1] PARAMETER ONLY (SAVE TO FD)

The EDR calculation values are saved to a floppy disk.

(1) Select "1. PARAMETER ONLY".

```

XXX) YYYY.MM.DD:ZZZZ
XXX) YYYY.MM.DD:ZZZZ
.
.
.
XXX) YYYY.MM.DD:ZZZZ
0.END 1-10.SELECT 11.NEXT 12.BEFORE (DEFAULT=11) :
```

FR7H4221.EPS

◇ REFERENCES ◇

- The display format of the last line in the list varies depending on whether the previous page and/or next page is available.
- A list of up to ten images stored in the hard disk is displayed.

- **xxx** : Reference number (1 to 999)
- **YYYY.MM.DD** : Image exposure date
- **zzzz** : Image number (A001 to A999)

(2) Type in "1 through 10", "11", or "12" to select an image to be saved to a floppy disk (i.e., an image for which EDR calculated value and image data are to be saved).

```

PLEASE SET A FD.
ARE YOU SURE TO SAVE EDR PARAMETER DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4222.EPS

(3) Select "1".

<When normal>

```

XXXXXXXXXX IS SAVED.
```

FR7H4223.EPS

XXXXXXXXXX: File name

<When in error>

```

FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-5-2] FULL (SAVE TO FD)

The EDR calculation values and image data are saved to a floppy disk.

(1) Select "2. FULL".

```

XXX) YYYY.MM.DD:ZZZZ
XXX) YYYY.MM.DD:ZZZZ
.
.
.
XXX) YYYY.MM.DD:ZZZZ
0.END 1-10.SELECT 11.NEXT 12.BEFORE (DEFAULT=11) :
```

FR7H4221.EPS

◇ REFERENCES ◇

- The display format of the last line in the list varies depending on whether the previous page and/or next page is available.
- A list of up to ten images stored in the hard disk is displayed.

- **xxx** : Reference number (1 to 999)
- **YYYY.MM.DD** : Image exposure date
- **zzzz** : Image number (A001 to A999)

(2) Type in "1 through 10", "11", or "12" to select an image to be saved to a floppy disk (i.e., an image for which EDR calculated value and image data are to be saved).

```

PLEASE SET A FD.
ARE YOU SURE TO SAVE EDR DATA FILES TO THE FD ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4224.EPS

(3) Select "1".
<When normal>

```

XXXXXXXXXX IS SAVED.
```

FR7H4223.EPS

XXXXXXXXXX: File name

<When in error>

```

FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[7-5-3] PARAMETER ONLY (SAVE TO HD)

This menu shall not be used.

[7-5-4] FULL (SAVE TO HD)

This menu shall not be used.

[7-5-5] DELETE EDR BACKUP ON HD

This menu shall not be used.

[7-6] PREVIOUS SYSTEM SOFTWARE

The system software is downgraded to the previous version.

(1) Select "6. PREVIOUS SYSTEM SOFTWARE".

ARE YOU SURE TO INSTALL PREVIOUS VERSION ?
1.YES 2.NO (DEFAULT=2) :

FR7H4225.EPS

(2) Select "1".

PREVIOUS VERSION SOFTWARE IS INSTALLED.

FR7H4226.EPS

(3) Reset the machine.

[7-7] EXECUTION

A file specified is loaded from the floppy disk and executed.

(1) Select "7. EXECUTION".

```

XXX) YYYYYYYYYYYYYY
XXX) YYYYYYYYYYYYYY
.
.
.
XXX) YYYYYYYYYYYYYY
0.END 1-10.SELECT 11.NEXT 12.BEFORE (DEFAULT=11) :
```

FR7H4227.EPS

◇ REFERENCES ◇

- The display format of the last line in the list varies depending on whether the previous page and/or next page is available.
- A list of up to ten images stored in the hard disk is displayed.

- **xxx** : Reference number (1 to 999)
- **YYYYYYYYYYYYYY** : File name

(2) Type in "1 through 10", "11", or "12" to select a file to be loaded.

```

ARE YOU SURE TO EXECUTE SELECTED FILE ?
1.YES 2.NO (DEFAULT=2) :
```

FR7H4228.EPS

(3) Select "1".

<When normal>

```

XXXXXXXXXX IS EXECUTED.
```

FR7H4229.EPS

XXXXXXXXXX: File name

<When in error>

```

FILE I/O ERROR. (FILE=XXXXXXXXXX)
```

FR7H4208.EPS

XXXXXXXXXX: File name

[8] BACKUP MEMORY**◆ NOTE ◆**

Be sure to reset the machine after the backup memory is cleared. If it is not reset, the backup memory will not be cleared.

The backup memory is initialized.

(1) Select "1. CLEAR".

ARE YOU SURE TO CLEAR ALL THE BACKUP MEMORIES?
1.YES 2.NO (DEFAULT=2) :

FR7H4230.EPS

(2) Select "1".

BACKUP MEMORIES ARE CLEARED.

FR7H4231.EPS

The following files are cleared from the HD.

- IMG
Set processing information, information for image number generation, HV ON/OFF information
- IPH
IP position information, subscanning grip correction information
- PNL
Audible click tone enabled/disabled, parallax correction data
- DST
Output LP information (NET/LOCAL)
- JNL
Error log information
- LIF
Format frequency information
- MFC
Setup options information
- CSL (for CSL specification only)
Multiframe-related information, set processing-related information, menu selection information

(3) Select "0. QUIT".

(4) Press the RESET button.

[9] HV ON/OFF

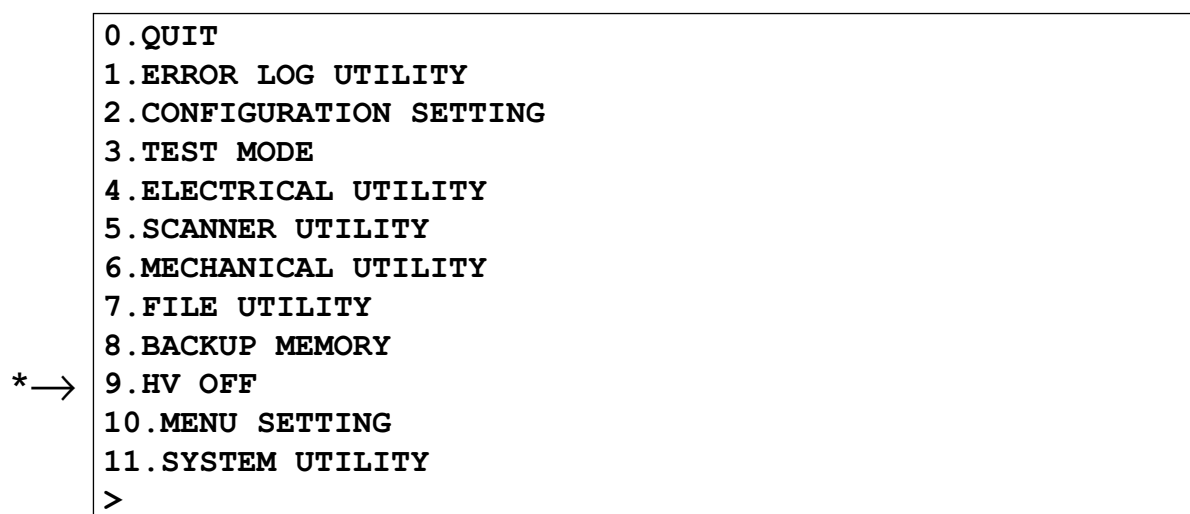
The high-voltage switch (software switch) is turned ON or OFF.

◆ NOTES ◆

- It should be turned OFF before opening the covers for checking. If not, the photomultiplier may be damaged.
- For the high-voltage switch, "9. HV OFF" is displayed when menu number "9" is in ON status, while "9. HV ON" is displayed when it is in OFF status.

■ To turn high-voltage switch OFF

When the high-voltage switch is in the ON position, menu number "9" on the M-Utility screen reads "9. HV OFF". When the high-voltage switch is placed in the OFF position, it reads "9. HV ON".



FR7H4232.EPS

(1) Select "9. HV OFF".

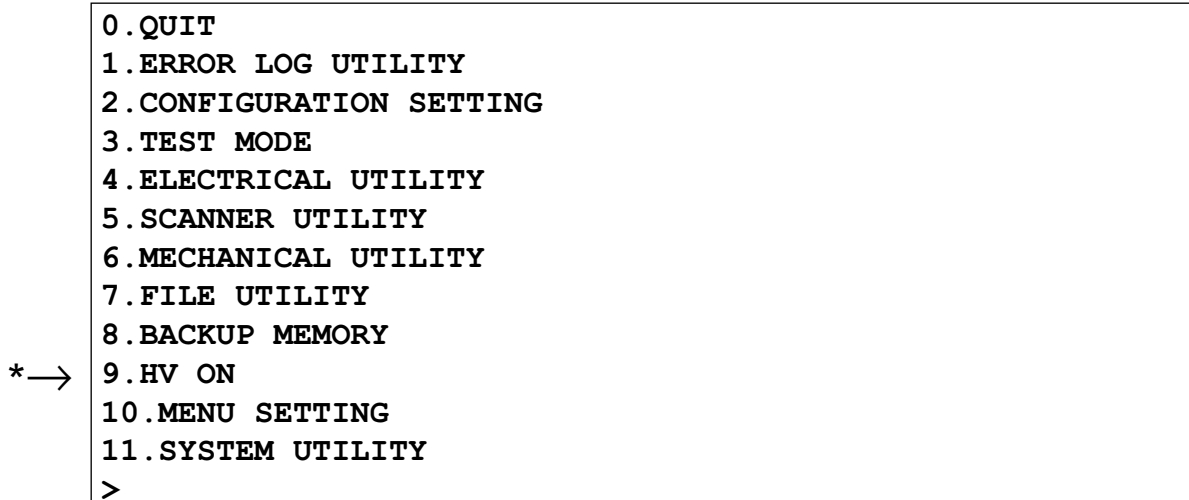
THE HV IS TURNED OFF.

FR7H4233.EPS

(2) Select "0. QUIT".

To turn high-voltage switch ON

When the high-voltage switch is in the ON position, menu number "9" on the M-Utility screen reads "9. HV ON". When the high-voltage switch is placed in the ON position, it reads "9. HV OFF".



FR7H4234.EPS

(1) Select "9. HV ON".

TURNING ON THE HV IS IN PROGRESS.

FR7H4485.EPS

<When normal>

RESULT - OK.

FR7H4235.EPS

<When the high-voltage power supply is in error>

HV ERROR.

FR7H4236.EPS

<When the analog power supply is in error>

RESULT - OK.

FR7H4347.EPS

(2) Select "0. QUIT".

[10] MENU SETTING

This mode shall not be used.

[11] SYSTEM UTILITY

The number of IP conveyances is set.

◇ REFERENCE ◇

With the CR-IR347, the IP conveyance count is used as a rough guide for the need to perform IP cleaning.

(1) Select "1. SETTING SYSTEM CONVEYANCE COUNTS".

INPUT THE NUMBER OF CONVEYANCES.
0 - 999999 :

FR7H4486.EPS

(2) Enter the conveyance count.

RESULT - ERROR.

FR7H4181.EPS

Appendix 1. Software Installation Procedures

The software is supplied on floppy disks (abbreviated FDs). If the hard disk has been replaced, format it before installing the software.

■ Installation FDs

All the installation FDs are DOS 1.44MB formatted, 3.5-inch floppy disks. Two system disks are supplied in addition to data disks. The number of data disks varies with the software version.

Before installing the software, check that the installation FDs are supplied as indicated in the following list.

Name		Storage device number	Quantity	Use
System disk	Format	114Y5431001A	1 disk (1st disk of the 2-disk set)	For hard disk formatting
	Install	114Y5431002A	1 disk (2nd disk of the 2-disk set)	For installation
Data disk	Appl	114Y5437003A	1 set - This number varies with the software version.	For application software
PC MENU EDITOR		114Y5431010B05	1 set - This number varies with the software version.	Software for editing the image processing parameters and CSL type menu settings

TR7H4016.EPS

Appendix 1.1 Installing the Software (Application)

■ Installation Procedures

If the hard disk has been replaced, format it before installing the software.

☞ “Appendix 1.2 Formatting the Hard Disk”

Install the software (application) by sequentially inserting the “INSTALL” system disk and data disks into the floppy disk drive in compliance with the message appearing on the operation panel.

If any error occurs during the installation process, start all over again.

- (1) Make sure that the machine is OFF.

If the power is ON, place the circuit breaker in the OFF position to turn OFF the machine.

- (2) Insert the “INSTALL” system disk into the floppy disk drive.



CAUTION

Do not erroneously interchange the “INSTALL” system disk and “FORMAT” system disk. If you turn ON the machine with the “FORMAT” disk set in position, the system automatically starts formatting the hard disk so that you will lose all the data that have been saved on the hard disk.

- (3) Turn ON the machine.

☞ The following messages appear on the operation panel.

```
Attaching to DMA device...done.
Attaching to <floppy> device...done.
Loading /fd0/VXWORKS.ST...43992 + 66184 + 29428
Starting at 0x1001000...
```

FR7H4488.EPS

The following messages appear and the software installation process starts.

```
-> Install utility. Version A00.
Attaching to <floppy> device...done.
Attaching to <SCSI> device...done.
```

FR7H4489.EPS

Upon completion of SCSI device initialization, the following message appears.

```
Insert data floppy disk.
```

FR7H4490.EPS

- (4) Remove the "INSTALL" system disk, and insert data disk #1 into the floppy disk drive.
- ⇒ As indicated in the example below, messages appear to indicate that software files are copied to the hard disk.

```
Copy </fd0/bootrom.sys> To </sd0/TEMP/BOOTROM.SYS>
Copy </fd0/vxworks.st> To </sd0/TEMP/VXWORS.ST>
Copy </fd0/version.dat> To </sd0/TEMP/VERSION.DAT>
Copy </fd0/script.txt> To </sd0/TEMP/SCRIPT.TXT>
.....
.....

Insert next data floppy disk.
```

FR7H4491.EPS

- (5) Insert the remaining data disks in numerical order (#2, #3,).
- ⇒ As indicated in the example below, messages appear to indicate that software files are copied to the hard disk.

```
Create </sd0/LOG/CORE.DMP>
Create </sd0/LOG/IOT.001>
Create </sd0/LOG/TCB.001>
Create </sd0/LOG/ISC.001>
.....
.....
```

FR7H4492.EPS

Upon completion of log file initialization, the following message appears to indicate the end of installation.

```
Install is complete.
```

FR7H4493.EPS

■ List of install utility error messages

If an error occurs during installation, the install utility displays the following error messages. When an error message appears, grasp its meaning, take proper remedial action, and resume the installation process.

Could not initialize DMA device.

FR7H4494.EPS

- ⇒ An abnormality was detected during DMA device initialization.
The MTH08A or CPU90E board is faulty.

Could not initialize floppy device.

FR7H4495.EPS

- ⇒ An abnormality was detected during floppy device initialization.
The CPU90E board is faulty.

Cannot open </fd0/bootrom.sys>,please setting boot disk.

FR7H4496.EPS

- ⇒ The disk placed in the disk drive is not the installation system disk or the contents of the disk are damaged.

Error loading file </fd0/bootrom.sys>

FR7H4497.EPS

- ⇒ The contents of the file named "bootrom.sys" are illegal.

Cannot open </fd0/VXWORKS.ST>,please setting boot disk.

FR7H4498.EPS

- ⇒ The disk placed in the disk drive is not the installation system disk or the contents of the disk are damaged.

Error loading file </fd0/VXWORKS.ST>

FR7H4499.EPS

- ⇒ The contents of the file named "VXWORKS.ST" are illegal.

Could not initialize SCSI device.

FR7H4500.EPS

- ⇒ The hard disk drive was not successfully mounted or formatted.
The MTH08A board, CPU90E board, or SCSI hard disk drive is faulty.

Could not access HD device.

FR7H4501.EPS

- ⇒ The hard disk drive was not successfully accessed.
The MTH08A or SCSI hard disk drive is faulty.

error make directory:status= <XXXXXXXX>

FR7H4502.EPS

- ⇒ The directory was not successfully made (the “XXXXXXXX” portion is a detail code).
The SCSI hard disk drive is faulty.

Cannot open <XXXXXXXX>

FR7H4503.EPS

- ⇒ The file could not be opened (the “XXXXXXXX” portion is a filename).
The floppy disk or SCSI hard disk drive is faulty.

error copy file:status= <XXXXXXXX>

FR7H4504.EPS

- ⇒ The file could not be copied (the “XXXXXXXX” portion is a detail code).
The floppy disk or SCSI hard disk drive is faulty.

error rename directory:status= <XXXXXXXX>

FR7H4505.EPS

- ⇒ The directory name could not be changed (the “XXXXXXXX” portion is a detail code). The SCSI hard disk drive is faulty.

error open directory:status= <XXXXXXXX>

FR7H4506.EPS

- ⇒ The directory was not found (the “XXXXXXXX” portion is a detail code).
The SCSI hard disk drive is faulty.

error create file:status= <XXXXXXXX>

FR7H4507.EPS

- ⇒ The file could not be generated (the “XXXXXXXX” portion is a detail code).
The SCSI hard disk drive is faulty.

error file size.

FR7H4508.EPS

- ⇒ The file size is illegal. The floppy disk is faulty.

Appendix 1.2 Formatting Hard Disk

■ Formatting Procedures

The hard disk should be formatted only when a hard disk access error frequently occurs or the data on the hard disk is lost wholly or partly.

- (1) Make sure that the machine is powered OFF.

If the power is ON, place the circuit breaker in the OFF position to power OFF the machine.

- (2) Put the "FORMAT" disk into the floppy disk drive.



CAUTION

If you change your mind and do not want to format the hard disk, remove the "FORMAT" disk from the floppy disk drive before doing anything. If you power ON the machine with the "FORMAT" disk inserted into the floppy disk drive, the system automatically initiates the hard disk formatting sequence without asking for the user's confirmation.

(3) Turn ON the machine.

⇨ The following message appears on the operation panel.

```
Attaching to DMA device... done.
Attaching to <floppy> device... done.
Loading /fd0/VXWORKS.ST...439684 + 66180 + 29396
Starting at 0x1001000...
```

FR7H4509.EPS

When the format utility loading process is completed, the hard disk physical formatting process starts. This formatting process takes 20 to 30 minutes.

```
-> HDD format utility. Version A00.
.....
.....
Start formatting process.
Mount HDD and physical format.
```

FR7H4510.EPS

The hard disk is partitioned so as to allocate 64 megabytes of hard disk space to the DOS region and the remaining space to the image region.

```
Open DOS partition.
```

FR7H4511.EPS

When partitioning ends, the following message appears to indicate that the hard disk is completely formatted.

```
***** Formatting is complete. *****
***** Please power off. *****
```

FR7H4512.EPS

(4) Remove the "FORMAT" disk from the floppy disk drive.

(5) Place the circuit breaker in the OFF position and turn OFF the machine.

■ List of format utility error messages

If an error occurs during formatting, the format utility displays the following messages. When an error message appears, grasp its meaning, take proper remedial action, and then resume the formatting process.

Could not initialize DMA device.

FR7H4513.EPS

- ⇒ An abnormality was detected during DMA device initialization. The MTH08A or CPU90E board is faulty.

The MTH08A or CPU90E board is faulty.

Could not initialize floppy device.

FR7H4514.EPS

- ⇒ An abnormality was detected during floppy device initialization. The CPU90E board is faulty.

Cannot open </fd0/bootrom.sys>,please setting boot disk.

FR7H4515.EPS

- ⇒ The disk inserted in the disk drive is not the formatting system disk or the contents of the inserted disk are damaged.

Error loading file </fd0/bootrom.sys>

FR7H4516.EPS

- ⇒ The contents of the file named "bootrom.sys" are illegal.

Cannot open </fd0/VXWORKS.ST>,please setting boot disk.

FR7H4517.EPS

- ⇒ The disk inserted in the disk drive is not the formatting system disk or the contents of the inserted disk are damaged.

Error loading file </fd0/VXWORKS.ST>

FR7H4518.EPS

- ⇒ The contents of the file named "VXWORKS.ST" are illegal.

Error 0007 (XXXXXXXX) : Can't mount HDD.

FR7H4519.EPS

- ⇒ The hard disk drive was not successfully mounted or formatted (the "*****" portion is a detail code). The MTH08A board, CPU90E board, or SCSI hard disk drive is faulty.

Error 0008 (XXXXXXXX) : Can't open DOS partition.

FR7H4520.EPS

- ⇒ The DOS partition was not successfully opened (the "*****" portion is a detail code). The SCSI hard disk drive is faulty.

Error 0009(%d) : Can't format DOS partition.

FR7H4521.EPS

- ⇒ The DOS partition was not successfully formatted. The SCSI hard disk drive is faulty.

```
=====
+   Formatting is not complete.   +
+           Please power off.     +
=====
```

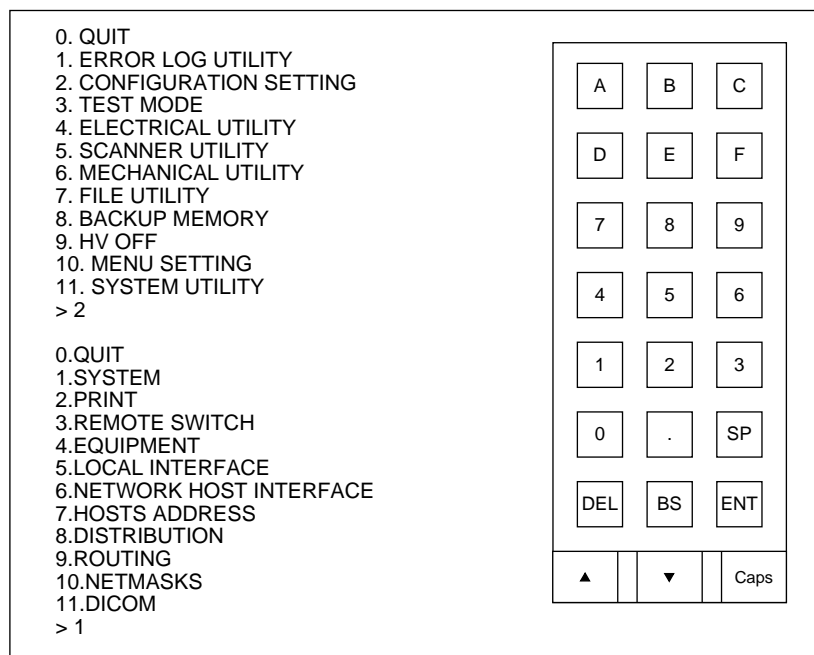
- ⇒ The format utility ended without completing the hard disk formatting process. This message appears when error 0007 or 0008 occurs.

Appendix 1.3 Installing “Menu Default FD for USA” Setup File (Only for Use in USA/CSL Type)

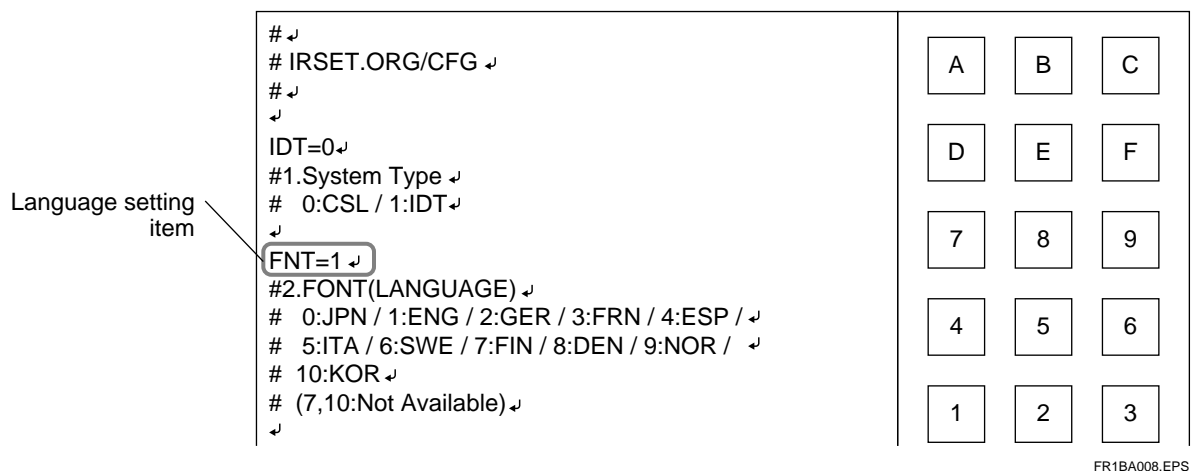
For the CSL-type machine for use in the U.S., if the hard disk is formatted and software is installed, be sure to install the “Menu default FD for USA” setup file as well.

■ Installation

- (1) Put the “Menu default FD for USA” setup file floppy disk into the FD drive.
- (2) Touch the U-Utility button.
 - ◇ The screen switches to the U-Utility mode.
- (3) Touch the upper left and upper right corners of the operation panel in sequence.
 - ◇ M-Utility is activated.
- (4) Select “2. CONFIGURATION SETTING” and “1. SYSTEM” in sequence.

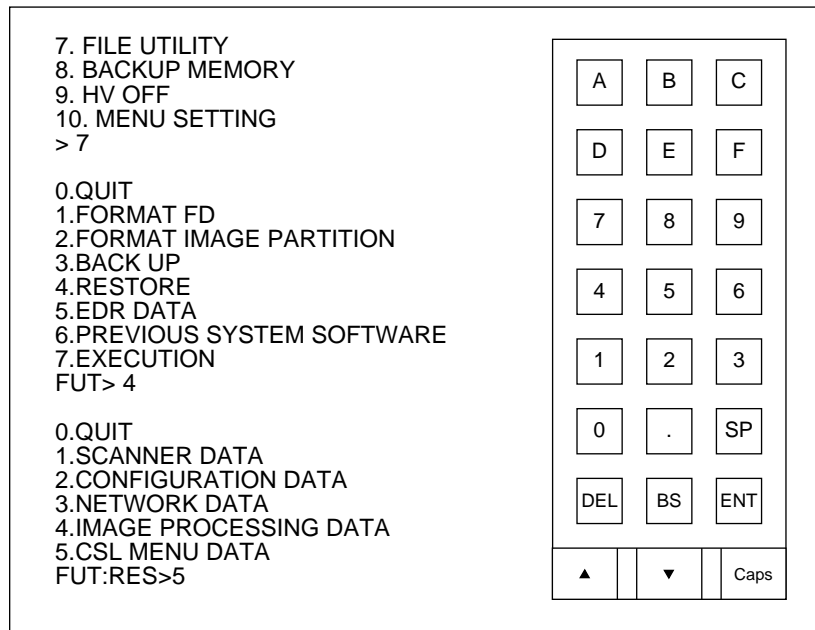


- (5) Set the language setting item, FNT, to 1.



- (6) Touch the [SAVE] key.
 - ◇ The edited content is saved to the HD.

- (7) Select "7. FILE UTILITY", "4. RESTORE", and "5. CSL MENU DATA" in sequence.



- (8) Remove the "Menu default FD for USA" setup file floppy disk from the FD drive.
- (9) Select "0. QUIT" repeatedly.
- ⇒ The screen returns to the U-Utility mode.
- (10) Press the RESET button.
- ⇒ The machine is reset so that the setting of the file installed becomes effective.

Appendix 2. List of Software Files

Appendix 2.1 SYSTEM

■ SYSTEM

BOOTROM.SYS	Boot file
SCRIPT.TXT	Startup script
VXWORKS.ST	“OS, BSP”
VERSION.DAT	Version information definition file
	For application startup opening screen
DPR.ABS	Main program file
FFASC8.FNT	ASCII fonts (8 dots)
FFASCW8.FNT	ASCII white fonts (8 dots)
FFASC16.FNT	ASCII fonts (16 dots)
FFASC24.FNT	ASCII fonts (24 dots)
FFASCE8.FNT	ASCII external fonts (8 dots)
FFRMN8.FNT	CodePage850 (8 dots)
FFRMN16.FNT	CodePage850 (16 dots)
FFRMN24.FNT	CodePage850 (24 dots)
FFANK8.FNT	JIS X0201 (half-width 8 dots)
FFANK16.FNT	JIS X0201 (half-width 16 dots)
FFANK24.FNT	JIS X0201 (half-width 24 dots)
FFKNJ16.FNT	JIS X0208 (Kanji 16 dots)
FFKNJ24.FNT	JIS X0208 (Kanji 24 dots)
USERCFG.LST	
INSTALL.LST	
LOGFILE.LST	
SPR-BD.ABS	
ICONS.CRT	

● ETC

IRSET.ORG	Machine definition file (original) Definition of machine status, etc. (setup value, default value described)
IRSET.CFG	Machine setup file (user setup)
FILMFMT.ORG	Format setup file (original) Definition of film character format (setup value, default value described)
FILMFMT.CFG	Format setup file (user setup)
IRSTATUS.ORG	Machine status-related item film (original) Definition of items, such as IP conveyance mode
IRSTATUS.CFG	Machine status-related item file (user setup)
EQUIP	Connected unit candidate file Definition of connected unit (IDT or LP), etc.
CODEDSTB	Distribution code definition file
HOSTS	Connected host setup file Correspondence table between connected host name and IP address
DEVICE	Device setup file Correspondence table between host name and device connected to that host
ROUTE	Route setup file Host name that has routing capability is described.
OPTION.001	Soft key Remote monitor function
OPTION.002	Soft key Image processing with 2 unsharp mask sizes
OPTION.003	Soft key Online connection
OPTION.004	Soft key 2430 mammo
OPTION.005	Soft key
OPTION.006	Soft key
OPTION.008	Soft key
NETMASKS	Subnet mask file Subnet mask per domain/host is described.
RMT_SW.CFG	Remote power config file Remote commands for the host applicable to remote power control are described.
DICOM	Base on DICOM connection information file Connection requirements for the host applicable to Base on DICOM connection are described.
MENU_WIN.KOR	
MPM_DEF.KOR	
MESSAGES.KOR	
SKKSC16.FNT	
SKKSC24.FNT	
LIF/LPFMT2J.DAT	
CSL/SET_MENU.KOR	

● IDM

HIPMENU.PRM	Standard image processing parameter file Fuji standard menu data (image processing with same unsharp mask size)
HIPUMN.PRM	Standard image processing parameter file Institution-specific menu data
HIPMNRL.PRM	Standard image processing parameter file Fuji standard menu data (image processing with independent unsharp mask sizes)
HIPSTD.PRM	Mask/frequency/gradation table Fuji standard table (standard image processing table)
HIPSTDU.PRM	Mask/frequency/gradation table Institution-specific table (standard image processing table)
HIPOP.PRM	Optional image processing parameter file Fuji standard table
HIPOPU.PRM	Optional image processing parameter file Institution-specific table
HIPOPT.PRM	Optional mask filter table Fuji standard table (optional image processing table)
HIPOPTU.PRM	Optional mask filter table Institution-specific table (optional image processing table)
HP.PRM	Hyper image processing parameter file Fuji standard table
HPU.PRM	Hyper image processing parameter file Institution-specific table
HPT.PRM	Hyper mask filter table Fuji standard table (hyper image processing table)
HPTK4.PRM	Hyper mask filter table Institution-specific table (hyper image processing table)
HPTU.PRM	
HPTK4U.PRM	PEM processing parameter file Fuji standard table
PEM.PRM	
PEMU.PRM	PEM processing parameter file Institution-specific table
PEMT.PRM	PEM unsharp mask data table Fuji standard table (PEM processing table)
PEMTU.PRM	PEM unsharp mask data table Institution-specific table (PEM processing table)
HPG.PRM	SELECTU.ORG HPGU.PRM SELECTU.PRM
SELECT.PRM	
HPGU.ORG	
SELECTU.ORG	
FINP100.DAT	FINP110.DAT
FINP110.DAT	

● CSL

MENU_WIN.JPN	CRT display/touch panel control file
MENU_WIN.ENG	CRT display/touch panel control file
MENU_WIN.GER	CRT display/touch panel control file
MENU_WIN.FRN	CRT display/touch panel control file
MENU_WIN.ESP	CRT display/touch panel control file
MENU_WIN.ITA	CRT display/touch panel control file
MENU_WIN.SWE	CRT display/touch panel control file
MENU_WIN.DEN	CRT display/touch panel control file
MENU_WIN.NOR	
KEY_TABL.JPN	
KEY_TABL.ENG	
BODYDISP.CFG	Exposure anatomy display information setup file
BODYDISP.ORG	
MENUDISP.CFG	Exposure menu display information setup file
MENUDISP.ORG	
RTN_DISP.CFG	Routine menu display information setup file
RTN_DISP.ORG	
MPM_DEF.PRM	Exposure parameters setup file
MPM_DEF.JPN	
MPM_DEF.ENG	
MPM_DEF.GER	
MPM_DEF.FRN	
MPM_DEF.ESP	
MPM_DEF.ITA	
MPM_DEF.SWE	
MPM_DEF.SWE	
MPM_DEF.DEN	
MPM_DEF.NOR	
FILMARK.PRM	Film mark character setup file
FILMARK.ORG	
ICON.CSL	Icon data file
SIOSETUP.CSL	Data link layer setup parameter definition file
CDFORM.DAT	
ISOCODE.DAT	
DRAW_DEF.ORG	
DRAW_DEF.PRM	
SET_MENU.PRM	
SET_MENU.JPN	
SET_MENU.ENG	
SET_MENU.GER	
SET_MENU.FRN	
SET_MENU.ESP	
SET_MENU.ITA	
SET_MENU.SWE	
SET_MENU.DEN	
SET_MENU.NOR	

● PNL

MESSAGES.JPN	Display message definition file Message data indicated on the display (Japanese)
MESSAGES.ENG	Display message definition file Message data indicated on the display (English)
MESSAGES.ESP	Display message definition file Message data indicated on the display (Spanish)
MESSAGES.FRN	Display message definition file Message data indicated on the display (French)
MESSAGES.GER	Display message definition file Message data indicated on the display (German)
MESSAGES.ITA	Display message definition file Message data indicated on the display (Italian)
MESSAGES.SWE	Display message definition file Message data indicated on the display (Swedish)
MESSAGES.DEN	Display message definition file Message data indicated on the display (Danish)
MESSAGES.NOR	Display message definition file Message data indicated on the display (Norwegian)
ICONS.PNL	Integration file for icons used on PNL Multiple icon files are integrated into a single file.

● IPH

PUL_PARA.FIL	Pulse motor parameter definition file Pulse motor parameters complying with the mechanical control specification are defined.
PUL_PRBD.FIL	
IPH_TIM.FIL	Conveyance timer file Timeout times complying with the mechanical control specification are defined.
IPH_TMBD.FIL	
RETRYCNT.FIL	Subscanning parameter file Conveyance parameters complying with the subscanning control specification

● IMG

CRT_FORM.DAT	Monitor character format information Referenced when CRT characters are created.
IMG_SIZE.DAT	
IMG_SBSP.DAT	
DEL_TABL.FIL	Erasure conveyance speed table determination file For table determination complying with the erasure control specification
DEL_DEFN.FIL	Erasure conveyance speed definition file Conveyance speed table complying with the erasure control specification
CRT_TEST.DAT	Test pattern file Test pattern data

● EDR

MPMPRM.PRM	EDR standard parameter Parameters for each menu are defined.
IRMPRM.PRM	EDR standard parameter Histogram parameters are defined.
MPMUMN.PRM	EDR user parameter Menu parameter definition for specific institution
IRMUMN.PRM	EDR user parameter Histogram parameter definition for specific institution
NNPRM.PRM	Standard neuro parameter Standard parameter for neuro analysis
NNUMN.PRM	Specific neuro parameter Specific parameter for neuro analysis
EDR.ABS	EDR program EDR software program

• SCN

SCN_IFMT.DAT	Format set data file Data regarding set-specific format
SCN_MAIN.DAT	Main-scan control data file Data for controlling the optics, synchronization, image signal system, light-collecting system
SCN_INIT.DAT	Main-scan initial setup data file Scanner initial setup parameter
SCN_ISEN.DAT	Sensitivity set data file Data regarding set-specific sensitivity
SCN_ISEN.ORG	Sensitivity set data file "Data regarding set-specific sensitivity (factory-default original, file name written to the FD with UTL)"
SCN_SHDG.SHG	Shading correction data file Shading correction result
SCN_SHDG.DEF	Shading correction data file (default data) Shading correction result (for institution with poor tube conditions)
SCN_SHDG.ORG	Shading correction data file "Shading correction result (factory-default original, file name written to the FD with UTL)"
SCN_POLY.POL	Polygon correction data file Polygon correction result
SCN_POLY.DEF	Polygon correction data file (default data) Polygon correction result (for institution with poor tube conditions)
SCN_POLY.ORG	Polygon correction data file "Polygon correction result (factory-default original, file name written to the FD with UTL)"
SCN_ELV.L.DAT	Erasure level detection data file Table for erasure dose detection
SCN_POLO.POL	
SCN_SHDO.SHG	
SCN_SHDO.DEF	
SCN_POLU.POL	
SCN_SHDU.SHG	
SCN_SHDU.DEF	

• MICRO

DSP4M1J.S24	Image processing μ -program
DSP4M2J.S24	Image processing μ -program
DSP1M1J.S24	
DSP1M2J.S24	
DSP2M1J.S24	
DSP2M2J.S24	

● LIF

LPLFMT0J.DAT	B4 format file
LPLFMT1J.DAT	14" x 17" format file
MCFFMT0J.BIN	Film character format file
SIOSETUP.LP	

• MICRO

DSP10M1M.S24	Image processing μ -program
DSP10M2M.S24	Image processing μ -program
DSP11M1M.S24	Image processing μ -program
DSP11M2M.S24	Image processing μ -program
DSP20M1H.S24	Image processing μ -program
DSP20M2H.S24	Image processing μ -program
DSP21M1H.S24	Image processing μ -program
DSP21M2H.S24	Image processing μ -program
DSP22M1H.S24	
DSP22M2H.S24	
DSP23M1H.S24	
DSP23M2H.S24	
DSP30M1J.S24	Image processing μ -program
DSP30M2J.S24	Image processing μ -program
DSP31M1J.S24	Image processing μ -program
DSP31M2J.S24	Image processing μ -program
DSP32M1J.S24	
DSP32M2J.S24	
DSP33M1J.S24	
DSP33M2J.S24	
REV.PRM	
TAN.PRM	

● DIF

SIOSETUP.DMS	Data link layer setup parameter definition file
	Data link layer setup parameter for DMS (E-IF) connection

• MICRO

DSP0M1J.S24	Image processing μ -program
DSP0M2J.S24	Image processing μ -program

● IIF

SIOSETUP.IDT	Data link layer setup parameter definition file
	Data link layer setup parameter for IDT (serial) connection
IDINF.DAT	

● HCP

• MICRO

DSPHM1J.S24
DSPHM2J.S24

● LAN

LANCONT.ABS	LAN board control program
-------------	---------------------------

● Menu Editor

FOR_RNG.CFG

Appendix 2.2 LOG

■ LOG

ERRLOG0.000	Error log save file Saved only to the FD in error log (level 0) maintenance utility.
ERRLOGX.000	Error log save file Saved only to the FD in error log (other than level 0) maintenance utility.
ISC.000	ISC log save file ISC log journal (extensions "001" to "005" denote normal logs, while "011" to "013" denote dumb logs)
SED_MFC.000	SED log save file (MFC) SED log journal
SED_JNL.000	SED log save file (JNL) SED log journal
SED_PNL.000	SED log save file (PNL) SED log journal
SED_IPH.000	SED log save file (IPH) SED log journal
SED_IMG.000	SED log save file (IMG) SED log journal
SED_IIF.000	SED log save file (IIF) SED log journal
SED_CSL.000	SED log save file (CSL) SED log journal
SED_DST.000	SED log save file (DST) SED log journal
SED_LIF.000	SED log save file (LIF) SED log journal
SED_DIF.000	SED log save file (DIF) SED log journal
SED_FOT.000	SED log save file (FOT) SED log journal
SED_FIN.000	SED log save file (FIN) SED log journal
SED_DOT.000	SED log save file (DOT) SED log journal
SED_HCP.000	

IOT.000	IOT data IOT data journal
SMCU_LIF.000	External unit communication log (serial LP) External unit communication log journal
SMCU_DIF.000	External unit communication log (serial DMS) External unit communication log journal
SMCU_IIF.000	External unit communication log (serial IIF) External unit communication log journal
SMCU_CSL.000	
CORE.DMP	Core dump
ISC.999	
IOT.999	